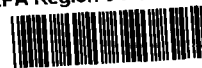


LPC 1190100004-Madison
acled Steel Co.
LN 000508283
SF/HRS

EPA Region 5 Records Ctr.



363734

CERCLA

Combined Assessment Report



CERCLA
COMBINED ASSESSMENT REPORT

for:

LACLEDE STEEL
Alton, Illinois
ILN 000508283

PREPARED BY:
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
BUREAU OF LAND
DIVISION OF REMEDIATION MANAGEMENT
OFFICE OF SITE EVALUATION

8/29/02
~~SEPTEMBER 2002~~
JL

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1.0 SITE BACKGROUND

In September 2001, the Illinois Environmental Protection Agency's (Illinois EPA) Office of Site Evaluation, was tasked by the United States Environmental Protection Agency (U.S. EPA) Region V to conduct a Combined Assessment at the Laclede Steel site in Alton, Illinois. The Combined Assessment is performed under the authority of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) commonly known as Superfund.

The Laclede Steel site was evaluated in the form of a CERCLA Combined Assessment prepared by Illinois EPA's Office of Site Evaluation. The Combined Assessment included the preparation of a site specific work plan which was submitted to U.S. EPA Region V, in March of 2002. The field activity portion of the Combined Assessment was conducted on March 19, through March 21, and on April 29 and 30 of 2002. Other Combined Assessment activities included interviews with personnel associated with the site, local residences and the collection of samples from the area around the facility.

The purpose of the Combined Assessment has been developed from USEPA directive and guidance information, which outlines the Office of Site Evaluation strategies. The guidance states:

The Combined Assessment will be conducted to: 1) Collect data which would satisfy both site evaluation and remedial program activities. This would incorporate hazardous waste, surface water, air, and groundwater concerns. 2) The objectives of the assessment are to determine whether time or non time critical removals are warranted and to determine whether the site is National Priorities List (NPL) caliber. If the determination

is made that the site is NPL caliber, additional data will likely be needed to complete the assessment. A sampling plan to accommodate removal and site evaluation needs, as well as initial remedial needs should be developed. 3) Determination of site sampling needs will be accomplished with an understanding to assure adequate data for the removal assessment and the preparation of the Hazard Ranking System (HRS) score as well as the need for possible initial sampling for the remedial investigation. Based on the preliminary HRS score and removal program information, the site will then either be designated as No Further Action (NFA), or carried forward as an NPL listing candidate. Sites that are designated NFA or deferred to other statutes may not be candidates for a Combined Assessment. 4) Upon completion of the data gathering, there will be a determination of whether the site should be forwarded within the Superfund process, either through the remedial or removal programs.

The initial assessment of the site as it enters the Superfund program within Region V will be conducted by either a Regional On-Scene Coordinator (OSC) and a Site Assessment Manager (SAM) or by State personnel. An OSC and a SAM will be assigned for all new sites entering the Regional Superfund program. If an emergency is found to occur, USEPA or State emergency removal staff will be immediately contacted for action. If the site needs further Superfund activities, a Site Assessment Team (SAT), comprised of the State, the SAM, the Regional Project Manager (RPM), and an OSC will be formed. As necessary, additional data can be generated for the SAT to make a recommendation to the Regional Decision Team (RDT) for further possible action. The Combined Assessment will address all the data requirements of the revised HRS using field screening and NPL level Data Quality Objectives (DQO's) prior to data collection. It will also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for NPL listing and that have not been deferred to another authority will receive a Combined Assessment.

Illinois EPA performed the investigation to obtain information, which may determine whether, or to what extent, the site poses a threat to human health and/or the environment. The report represents the results of Illinois EPA's evaluation and briefly summarizes the site conditions and targets of concern to the migration and exposure pathways associated with the site.

1.1 Site Description

Laclede Steel Company is approximately 400 acres in size and located in Alton, Madison County, Illinois. The site is within a ¼ mile of the Mississippi River and is bordered to the north by a residential area to the west by the former Owens Illinois glass plant, to the south by a vinegar plant, and to the east by a scrap metal processor. Moving further out to the west is a automobile scrap yard, to the south is a former primary lead smelter, and to the east is a consolidated waste pile used by Laclede Steel for the disposal of electric arc furnace dust.

1.2 Site History

The Laclede Steel Company started operations at this location in 1911, after purchasing the property from the Alton Barrel Hoop Company. This was a secondary steel processor and most recently utilized electric arc furnaces (EAF) to melt the scrap steel and prior to 1962, open-hearth furnaces were used to process the scrap steel. The dust generated from these furnaces is classified hazardous waste and has high levels of arsenic, barium, cadmium, chromium, cobalt, copper, lead, magnesium, manganese, and vanadium. Originally, emissions of this dust were uncontrolled and could have impacted the surrounding community and waterways.

The site has also had a release of PCB's that was associated with a large above ground storage tank.

Laclede Steel has declared bankruptcy and ceased all steel producing operations at this facility in August of 2001. An on-site water treatment plant at the facility has remained in operation in order to process groundwater that is pumped from several basements, sub-basements, and equipment pits. According to plant personnel discontinuing the operation of this plant would allow the site to flood.

1.3 Regulatory Status

Based upon available file information the Laclede Steel site steel producing operations were regulated by the Resource Conservation Recovery Act (RCRA) and subject to RCRA corrective action authorities. This information does not indicate that the site is under the authority of the Atomic Energy Act (AEA), Uranium Mine Tailings Action (UMTRCA), or the Federal Insecticide Fungicide or Rodenticide Act (FIFRA).

2.0 COMBINED ASSESSMENT ACTIVITIES

2.1 Reconnaissance Activities

In October of 2001, several members of the Illinois EPA and the U.S. EPA met with the plant manager and environmental manager for Laclede Steel. At this time a site tour was conducted to familiarize the associated personnel with current site conditions. A second site visit was made in February of 2002, to review the environmental files of the company.

In the spring of 2002 Illinois EPA, community relations personnel also contacted approximately fifty residences that were identified as screening locations for which their properties would be screened for metals contamination.

2.2 Sampling Activities

2.2.1 Sediment Samples

During the Combined Assessment investigation nine sediment samples were collected from eight locations along the surface water drainage route for the Laclede Steel site. Prior to the collection

of the nine sediment samples these areas were screened using field-based technologies. All of these samples were collected to determine if hazardous contaminants were present within the sediments of the surface water route, which may pose a threat to the aquatic along this route. A number of these sediment samples were also collected from two forested wetland areas to determine if hazardous contaminants are impacting them. Sediment sample depth ranged from 0-8 inches, and all samples were analyzed for total metals, cyanide, semivolatiles, polychlorinated biphenyls (PCBs), and pesticides. A complete list of the Target Compound List (TCL) compounds and analytes can be found in Appendix D. Figure 3.2 illustrates the approximate location of each sample. Table 2.2 provides detailed information regarding each sediment sample. Tables 1.1 and 1.2, provides a summary of the analytical results.

All sediment samples for the Combined Assessment were compared to background samples X201 and X209. These representative background samples were collected up stream of the surface water drainage routes. Sample collection began at the furthest down-stream location and moved up stream in order to preserve the integrity of the down-stream locations.

Sample X202 was collected at the point where the main drainage route from the site enters the Wood River. This location represents the furthest down-stream location for surface water run-off from the site. This sample was collected to determine if contaminants have migrated from the site to Wood River through this main drainage route.

Samples X203 and duplicate sample X204 were collected at the start of a forested wetland area

that the main drainage route from the site passes through. These samples were gathered to determine if contamination from the site is impacting this wetland area. The sediment that was obtained for X203 and X204 was placed in a stainless steel pan, mixed thoroughly then placed alternately into sample containers for both X203 and X204.

Sample X205 was collected immediately off-site along the main drainage route. This sample was collected to establish what type and amounts of contamination are migrating off-site.

Sample X206 was collected on-site before the surface water run-off exits the site. This sample was collected to characterize the on-site sediment.

Sample X207 was collected along the drainage from the former lead smelter and vinegar plant. This sample was collected to establish what type and amounts of contamination are migrating off-site from these operations.

Sample X208 was from a stream that currently receives a limited amount of site run-off. Prior to the construction of the on-site waste-water treatment plant this is believed to have been a major drainage route for the site. This location was chosen to determine what contaminants and levels of those contaminants are present in this historic drainage route.

2.2.2 Waste Samples

Sixteen waste samples were collected from sixteen locations during the CERCLA Combined

Assessment. The locations of the samples were selected in order to determine if hazardous contaminants were present in the serpentine lagoon system, fill material, and electric arc furnace dust. All of these samples were analyzed for total metals, cyanide. Samples collected from the lagoon system and near the above ground storage tank were also analyzed for semi-volatiles, polychlorinated biphenyls (PCBs), and pesticides. A complete list of the Target Compound List (TCL) analytes can be found in Appendix D. Figure 3.1 illustrates the approximate locations of each sample. Table 2.3 provides more detailed information about each sample's appearance. Tables 1.4 and 1.5 provide a sample summary of the waste sample results.

Samples X301 and X302 were collected from soil borings near the 500,000 gallon above ground storage tank. These samples were collected to characterize the fill material and determine if the oil storage tank is a potential source of the PCBs found at the site.

Samples X303 was collected from northern portion of the scrap steel area. This sample was collected to characterize the fill material.

Sample X304 was collected from the southern part of the former ore bin area. This sample was collected to characterize the fill material.

Sample X305 was collected from the far northwest portion of the site. This sample was collected to characterize the fill material.

Sample X306 was collected from southeast portion of the scrap steel area. This sample was collected to characterize the fill material.

Sample X308 was collected from the electric arc furnace area. This sample was collected to characterize the electric arc furnace dust.

Sample X309 was collected from the northern “bag house area”. This sample was collected to characterize the electric arc furnace dust.

Sample X311 was collected from the southern waste pile in the steel scrap yard area. This sample was collected to characterize the material in the waste pile.

Samples X314 through X320 were collected from various locations in the serpentine lagoon system. These samples were collected to characterize the material in the lagoon system.

2.2.3 Groundwater Samples

The six individual on-site monitoring wells were selected to determine if a release of hazardous contaminants to groundwater has occurred at this site and to establish background levels. These wells ranged in depth from approximately 11 to 38 feet and were analyzed for Target Compound List (TCL) compounds. A complete list of the TCL analytes can be found in Appendix D. Table 2.4 provides more detailed information about each sample's appearance. Tables 1.6 and 1.7 provide a summary of the groundwater sample results.

Prior to the collection of any groundwater samples three well volumes were purged from each individual well. Sample G204 was a duplicate of sample G203. Sample containers for these two samples were filled in an alternating manner.

2.2.4 Soil Samples

Fourteen residential soil samples were collected from thirteen residential locations during the Combined Assessment. All sample locations were selected to confirm the field analytical data collected during the residential screening phase of this investigation. These samples were collected to determine if hazardous contaminants were present within the soils of the community surrounding the site. Soil sample depth ranged from 1-1.5 inches, and all samples were analyzed for total metals and cyanide only. A complete list of the Target Compound List (TCL) analytes can be found in Appendix D. Table 2.1 provides detailed information regarding each soil sample and its appearance. Table 1.3 provides a soil sample summary of the analytical results.

All soil samples for the Combined Assessment were compared to background sample X101. This representative background sample was collected near a limestone building at the corner of College Avenue and Route 140 that is part of the Southern Illinois University School of Dentistry. The lead results for this sample appear to be abnormally elevated and a background lead value 71 ppm from an Illinois EPA soil background study will be substituted for comparison purposes

Soil sample X109 was a duplicate sample of X108. Soil obtained for these samples were placed in a stainless steel pan, mixed thoroughly and then placed alternately into sample containers for both X108 and X09.

2.3 Analytical Results

Following sample collection, all samples were transferred to containers provided by Illinois EPA's Division of Laboratories. The sample containers were packaged and sealed in accordance with the Illinois EPA's Office of Site Evaluations Program procedures. Sample analysis was provided by the USEPA's Contract Laboratory Program (CLP), which utilizes a network of various laboratories throughout the United States. A complete analytical data package, including quality assurance review sheets, for the Laclede Steel site is located in Appendix F (volume 2 of the Combined Assessment report).

The analytical results of the sediment samples collected along the main drainage route for the site indicate the presence of both inorganic analytes and organic compounds in all of the sediment samples collected. Samples: X203/X204, X205, X206, and X208 represent the portions of the surface water run-off route that contain the highest levels of contamination. These four sample locations detected varying levels of PCBs, with sample X205 containing the highest levels of these compounds.

The analytical results of the waste samples collected from the on-site serpentine cooling lagoon system indicate the presence of inorganic analytes and organic compounds in all of the samples

collected. All of the primary contaminants of concern for this site can be found in the waste sample results. The contaminants of concern for this site include: arsenic, cadmium, chromium, cobalt, copper, lead, magnesium, manganese, zinc, and PCBs.

The analytical results of the groundwater samples are discussed in the groundwater pathway section of this report. The analytical results of the residential soil samples are discussed in the soil exposure pathway section of this report.

3.0 SITE SOURCES

Information obtained during the Combined Assessment identified three sources of contamination at the Laclede Steel site. These sources are the on-site serpentine cooling lagoon system, the slag used as fill at the site, and the electric arc furnace dust. Due to the limited scope of this investigation, the possibility exists that additional information may reveal the presence of additional sources of contaminants. In addition to these sources Laclede Steel operated a landfill separate from the main plant area.

3.1 Serpentine Cooling Lagoons (Surface Water Impoundment)

For identification purposes during the Combined Assessment the lagoons were divided into three segments. They are referred to as the east lagoon, west lagoon, and oil skimmer area. Originally these lagoons were used to cool process water for the site. At some point the facility began using cooling towers to process this water. The lagoons remained and are currently used to collect surface water from the site as well as groundwater from several basements and sub-basements.

The total lagoon system has an approximate area of three acres (see Appendix C). It is important to note that this is a minimum area based on current site conditions. Historical information suggests that portions of these lagoons have been backfilled and that there is the potential that their original area is greater than the three acres currently visible. Waste samples collected as part of the Combined Assessment revealed the presence of elevated concentrations of: arsenic, cadmium, chromium, cobalt, copper, lead, magnesium, manganese, zinc, and PCBs.

3.2 Fill Material (Landfill)

Historical information suggests that over the operational life of this facility steel slag and mill scale were used to fill in low areas at the site and create level surfaces for expansion of Laclede's operations. File information mentions that several soil borings have been completed at the site prior to this investigation. These borings indicate that the slag/mill scale fill is up to fifteen feet thick. Six soil borings made during the Combined Assessment range in depth from one and a half to five and a half feet. Sample results from these borings indicate the presence of: arsenic, cadmium, chromium, copper, lead, magnesium, manganese, vanadium, zinc, and PCBs. Using the one and a half feet thickness yields approximately 25.8 million cubic feet of this fill material.

3.3 Electric Arc Furnace Dust (Soil Exposure)

The electric arc furnaces at Laclede Steel generate a very fine dark powder or dust when melting scrap steel. These furnaces had a collection system designed to collect and store this material for future disposal. In the early 1990s an excessive accumulation of dust in part of the ductwork caused this system to fail and resulted in an airborne release of this material. According to the

former plant manager this collection storage area is near capacity and the collection system has several feet of material in it. There are also several piles of this material in the melt shop area. Two samples of this material were collected in April 2002, and indicated the presence of elevated levels of: arsenic, barium, cadmium, chromium, cobalt, copper, lead, magnesium, manganese, vanadium, and zinc.

4.0 MIGRATION PATHWAYS

The Site Assessment Program identifies three migration pathways and one exposure pathway, as identified in the CERCLA Hazard Ranking System, by which hazardous substances may pose a threat to human health and/or the environment. Consequently, sites are evaluated on their known or potential impact to these pathways. The pathways evaluated are groundwater migration, surface water migration, soil exposure, and air migration.

4.1 Groundwater

Over time steel slag, wire mill scale and other materials have been used at this site to create level surfaces for site operations. According to a recent environmental site assessment work plan borings at the site indicated that as much as 15 feet of fill material maybe present. In undeveloped areas and below the fill an upper cohesive unit of silty clay and clay ranging between 6 and 30 feet thick overlies a fine to medium grained sand. The sand is assumed to extend to the top of bedrock. Bedrock was encountered in borings at depths of 8 to 28 feet, and extended to depths of 170 feet below the grounds surface near the center of the Mississippi River

Valley. The bedrock appears to be encountered at shallower depths toward the north.

The site is situated in the Mississippi River floodplain and is comprised of the Henry and Cahokia Formations. The Henry Formation is the older of the two formations and represents glacial outwash deposits of the Wisconsinian Stage. The Henry Formation is described as stratified sand and gravel that may contain lenses of silt, clay, organic debris and wood. The Cahokia Formation is the younger of the two formations and represents post-glacial fluvial deposits of the Holocene. The Cahokia Formation is described as poorly sorted silt, clay and silty sand that can contain lenses of sand and gravel. The St. Louis Limestone or Salem Limestone is considered the uppermost part of the bedrock in this area. The St. Louis Limestone is described as a light gray to gray, micritic to fine-grained, limestone that commonly contains chert.

Within the four-mile target distance limit the East Alton Water Department operates eight wells located approximately two miles southeast of the site. These wells range in depth from 90 to 108 feet and provide service to 7,096 people. The Wood River Department of Public Works operates five wells roughly 3.5 miles southeast of the site. These wells range in depth from 79 to 95 feet and provide service to 12,466 people. Both of these public utilities participate in the IEPA's Public Water Unit's water quality testing. No residential wells were identified within the TDL and no formal residential well samples were collected during this investigation.

Groundwater samples collected on-site had levels of: carbon disulfide, naphthalene, caprolactam, and 2-methylnaphthalene.

4.2 Surface Water

This pathway begins where surface water run-off from the site enters the first perennial water body. This pathway then travels fifteen miles down-stream completing the 15-Mile Target Distance Limit (TDL). The TDL ends at the southern portion of Mosenthein Island that is located on the Mississippi River near Granite City, Illinois (see Appendix A). This site has two different segments for this pathway and there is one surface water intake along the 15-mile target distance limit.

Surface water drainage from the southwestern part of the site travels approximately three quarters of a mile through a series of wetlands and terminates at a pumping station. The pumping station is used to lift the water from this part of Alton an additional quarter mile over a levy and into the Mississippi River. The wetlands along this route are classified as “isolated” wetlands and the Mississippi River as a fishery. Before the creation of the levy this was a direct drainage route from the site to the Mississippi River.

The other drainage route is located on the eastern side of the site. This route also passes through a series of wetlands traveling approximately one mile to the Wood River. The Wood River then flows an additional mile and terminates at the confluence of the Mississippi River. During the Combined Assessment a secondary drainage route was noted flowing into this route. It appears that this was a drainage route from the former lead smelter and vinegar plant located south of Laclede Steel.

According to a Department of the Interior Wetlands Inventory Map, Laclede Steel has a series of wetlands connecting run-off from the site to the Wood River and wetlands connecting run-off from the site to the pumping station. (The applicable portion of this map can be found in Appendix B.) Therefore, the Probable Point of Entry (PPE) for this pathway is any point where surface water run-off from the site enters these two wetlands.

Sediment sample X203/X204, was the furthest upstream sample collected from the wetlands along the eastern drainage route. Sediment sample X208, was the furthest upstream sample collected along the southwestern drainage route. Laboratory analysis of these samples documents a release of PCBs to the surface water pathway.

4.3 Soil Exposure

This exposure pathway focuses on contaminated soil in the upper two feet of the grounds surface and within 200 feet of an occupied residence. The Laclede Steel site is located in an industrial area that is bordered to north by a large residential area.

Residential soil sampling conducted during the Combined Assessment identified five residences through laboratory analysis with contamination similar to the contamination found in the samples collected on-site. These samples were collected within the upper two feet of the grounds surface and within 200 feet of an occupied residence. It is believed that this material was transported through air-borne release from various site activities. The primary contaminant of concern in the

residential area is lead. As stated earlier in this report the background lead value for this comparison was taken from an Illinois EPA soil background study. This was due to the unusually high background lead levels found in the background sample collected during the Combined Assessment.

Nearby population within one-mile of the site

Distance (mi)	Population
On-site	6
0-1/4	1000
1/4 -1/2	2000
1/2 – 1 mile	4500

The number of people was calculated using population data as established by the U.S. Census Bureau

4.4 Air Route

No formal air samples were collected during the Combined Assessment activities. An estimated 59200 people reside within a four-mile radius of the site.

Individuals potentially exposed to air-borne contaminants

Distance (mi)	Population
0 - 1/4	1000
1/4 - 1/2	2000
1/2 - 1	4500
1 - 2	27000
2 - 3	20000
3 - 4	4700

The number of people were calculated using population data as established by the U.S. Census Bureau

5.0 REFERENCES

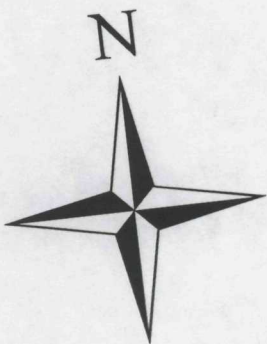
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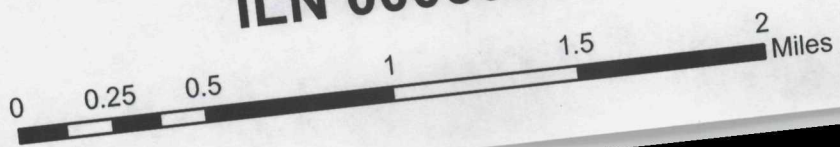
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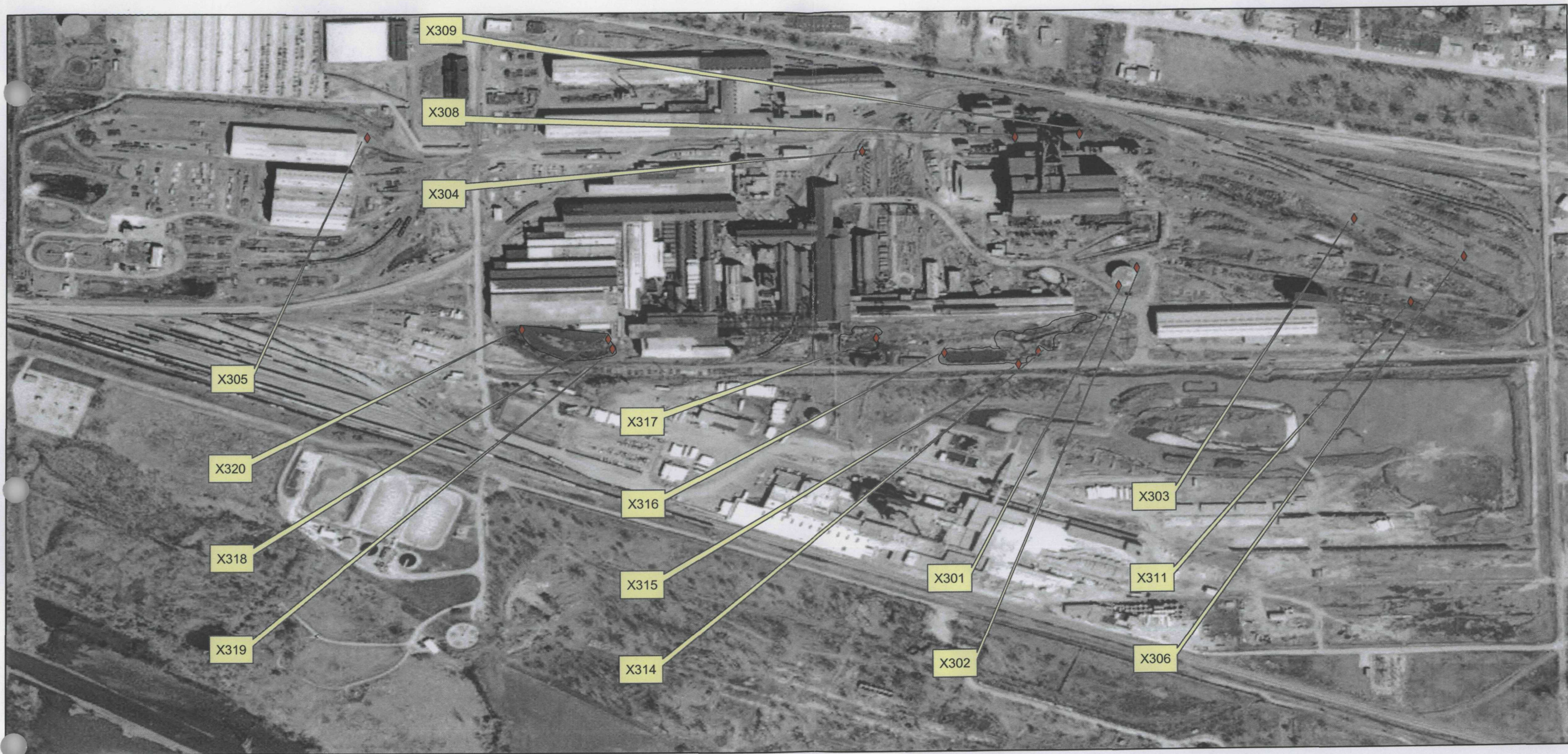


Figure 1, SITE LOCATION MAP
LACLEDE STEEL
ILN 000508283



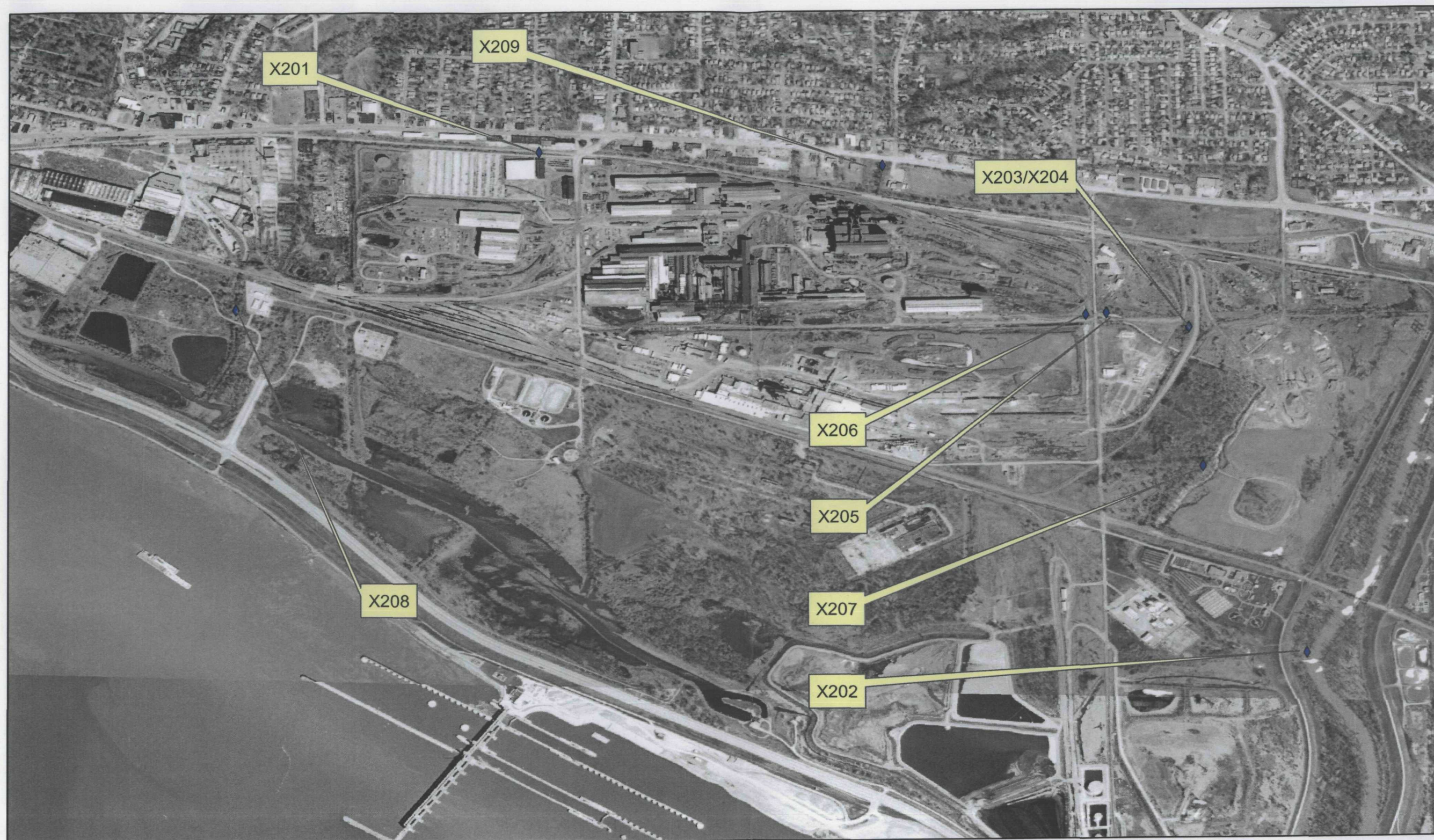
**Figure 2, SITE AREA MAP
LACLEDE STEEL
ILN 000508283**





**Figure 3.1, WASTE SAMPLE LOCATION MAP
LACLEDE STEEL
ILN 000508283**





**Figure 3.2, SEDIMENT SAMPLE LOCATION MAP
LACLEDE STEEL
ILN 000508283**

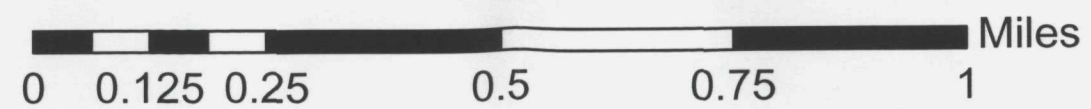


TABLE 1.1
LACLEDE STEEL, LP 90100004/ILN-000508283

Organic/ Pesticide/ PCB Sediment Samples

Sample Number :	E00J2		E00J3		E00J4		E00J5		E00J6		E00J7		E00J8		E00J9		E00K0	
Sampling Location :	X201		X202		X203		X204		X205		X206		X207		X208		X209	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Butanone	--		--		--		--		--		--		--		17		--	
Toluene	--		--		--		--		--		5	J	--		11		--	
1,4-Dichlorobenzene	--		--		--		--		--		--		--		5	J	--	
Semivolatile Compound																		
2-Methylnaphthalene	250	J	--		--		--		--		--		--		--		--	
Phenanthrene	350	J	--		420	J	480	J	260	J	73	J	--		4900	J	790	J
Anthracene	--		--		--		--		--		--		--		960	J	--	
Carbazole	--		--		--		--		--		--		--		670	J	--	
Di-n-butylphthalate	--		110	J	--		--		--		--		--		--		--	
Fluoranthene	590	J	--		220	J	240	J	230	J	170	J	72	J	9400		2000	J
Pyrene	560	J	--		430	J	630	J	260	J	160	J	89	J	4500	J	930	J
Benzo(a)anthracene	330	J	--		360	J	390	J	--		--		--		3500	J	770	J
Chrysene	380	J	--		800		860		--		110	J	77	J	4300	J	1100	J
Benzo(b)fluoranthene	320	J	--		320	J	400	J	--		110	J	67	J	3400	J	1000	J
Benzo(k)fluoranthene	310	J	--		120	J	160	J	--		95	J	--		3200	J	950	J
Benzo(a)pyrene	300	J	--		340	J	370	J	--		--		--		3200	J	830	J
Indeno(1,2,3-cd)pyrene	--		--		94	J	80	J	--		--		--		930	J	270	J
Dibenzo(a,h)anthracene	--		--		89	J	67	J	--		--		--		--		--	
Benzo(g,h,i)perylene	--		--		170	J	130	J	--		--		--		700	J	--	
Pesticide/PCB																		
alpha-BHC	2.3	R	2.4	R	--		--		--		--		--		--		250	J
beta-BHC	2.3	R	2.4	R	--		--		7.5		--		--		5.8	J	560	J
delta-BHC	2.3	R	4.3	J	--		--		--		--		--		--		2300	J
Heptachlor	2.3	R	2.4	R	--		--		--		--		--		4.6	J	--	
Aldrin	2.3	R	2.4	R	--		--		8.9		--		--		--		--	
Dieldrin	4.5	R	4.7	R	--		--		9.5		--		20		38	J	--	
Endosulfan II	4.5	R	4.7	R	--		3.5	J	--		--		150		12	J	--	
4,4'-DDD	4.5	R	4.7	R	--		--		--		9.6		--		--		--	
Endrin ketone	4.5	R	4.7	R	--		--		--		--		7		--		--	
alpha-Chlordane	2.2	J	2.4	R	6.6		10		32		12		4.6		100	J	14	J
gamma-Chlordane	2.3	R	2.4	R	--		--		8.4		4.9		--		35	J	16	J
Aroclor-1248	45	R	47	R	--		110		1100		--		--		--		--	
Aroclor-1254	45	R	47	R	180		240		750		160		--		1900	J	--	
Aroclor-1260	45	R	47	R	--		--		--		--		4800		--		--	

Below Detection Limit: --

Estimated Value: J

Rejected Data: R

TABLE 1.2
LACLEDE STEEL, LPC-1190100004/ILN-000508283

Inorganic Sediment Samples

Sample Number :	ME00J2		ME00J3		ME00J4		ME00J5		ME00J6		ME00J7		ME00J8		ME00J9		ME00K0	
Sampling Location :	X201		X202		X203		X204		X205		X206		X207		X208		X209	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	5330	J	2740	J	7320	J	6220	J	6080	J	2890	J	5810		4700	J	4700	J
ANTIMONY	--		--		0.81	J	0.92	J	--		--	UJ	0.84	J	0.57	J	--	
ARSENIC	3.8		2.7		7.6		6.4		1.1		3.5		3.6		4.5		4.7	
BARIUM	92.6		51.5		151		132		107		237		4470		120		101	
BERYLLIUM	0.47	J	0.25	J	0.63	J	0.57	J	0.51	J	0.19	J	0.41	J	0.5	J	0.4	J
CADMIUM	1.3		--		3		2.7		0.09	J	1.2		2.8		3.1		1.3	
CALCIUM	58200	J	8670	J	5120	J	4240	J	4240	J	297000	J	5450		30500	J	31800	J
CHROMIUM	21.1	J	7.3	J	53.5	J	44.9	J	15.4	J	18.4	J	27.6		28	J	23.9	J
COBALT	4.3		3.6		5.2		4.2		5.3		1.3		5.2		5.4		5.3	
COPPER	31.1		11.7		83.3		70.4		13.8		29.1		85.1		56.7		68.2	
IRON	12600	J	6650	J	15900	J	13100	J	9290	J	4690	J	12500		13900	J	11700	J
LEAD	199		11.4		238		196		18.6		164		210		154		135	
MAGNESIUM	5940		2540		2160		1750		1940		16600		1670		4150		3970	
MANGANESE	505	J	319	J	193	J	173	J	333	J	330	J	666		375	J	331	J
MERCURY	0.12		--		0.1		0.12		--		--	U	0.19		0.18		0.12	
NICKEL	15.1		8		26.2		22.4		15.1		7		27.5		32.3		18.3	
POTASSIUM	747		322		703		564		725		599		738	J	633		527	
SELENIUM	1.3		0.55		2.2		1.5		0.65		1.2		1.6		1.2		1	
SILVER	--		--		0.35	J	0.19	J	--		--	UJ	--		1.8	J	--	
SODIUM	979	J	321	J	1400	J	1150	J	486	J	2380	J	1250	J	1040	J	1200	J
VANADIUM	18.1	J	9.7	J	28.7	J	23.2	J	21.6	J	12.2	J	19.1		17.3	J	17	J
ZINC	199	J	35.2	J	687	J	608	J	68.8	J	414	J	602		523	J	590	J
CYANIDE	0.07		0.06		--	U	--		0.05		0.47		0.18		0.15		--	

Below Detection Limit: --

Estimated Value: J

TABLE 1.3
LACLEDE STEEL, LPC-1190100004/ILN-000508283

Inorganic Residential Samples

Sample Number :	ME00K2		ME00K3		ME00K4		ME00K5		ME00K6		ME00K7		ME00K8		ME00K9	
Location :	X101		X102		X103		X104		X105		X106		X107		X108	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	5490	J	4870	J	6050	J	8420	J	9810	J	5880	J	6870	J	6380	J
ANTIMONY	0.63	J	0.45	J	--		2	J	--		0.64	J	--		0.38	J
ARSENIC	6.6		53		7.5		7.5		9.9		5.6		6.4		6	
BARIUM	156		118		120		203		157		121		120		135	
BERYLLIUM	0.64		0.41	J	0.4	J	0.67		0.69	J	0.41	J	0.56	J	0.49	J
CADMIUM	1.3		1.5		2.1		6.3		2.4		2.6		1.1		1.1	
CALCIUM	2640	J	3640	J	19800	J	8360	J	7880	J	3810	J	7420	J	4750	J
CHROMIUM	11.4	J	15.9	J	16.5	J	78.5	J	25.5	J	23	J	17.4	J	18.4	J
COBALT	7.6		6		6.6		8.9		7.8		6.6		6.8		7	
COPPER	36.8		48.9		46.5		215		70.5		76.2		41.4		41.6	
IRON	19100	J	10500	J	15700	J	19600	J	20400	J	12500	J	15400	J	13800	J
LEAD	309		145		74.9		737		173		182		79.8		116	
MAGNESIUM	1090		1390		11900		2570		2800		1430		3700		1650	
MANGANESE	997	J	927	J	710	J	1680	J	776	J	866	J	633	J	915	J
MERCURY	0.12		0.19		--		0.35		0.1		0.1		--		--	
NICKEL	14.4		18.6		21.7		47.4		28.1		21.6		20.9		17.2	
POTASSIUM	964		854		1120		1300		1390		991		1320		805	
SELENIUM	1.6		1.1		0.89		2.8		0.95		1.3		1.3		1.3	
SILVER	--		0.63	J	--		0.66	J	--		--		--		--	
SODIUM	605	J	762	J	818	J	2600	J	1500	J	1410	J	610	J	832	J
VANADIUM	21.2	J	15.2	J	20.3	J	26.5	J	28.3	J	19	J	21.9	J	19.1	J
ZINC	252	J	400	J	411	J	1990	J	1030	J	915	J	256	J	270	J
CYANIDE	0.51		0.24		0.13		0.7		0.25		0.42		0.21		0.16	

Sample Number :	ME00L0		ME00L1		ME00L2		ME00L3		ME00L4		ME00L5		ME00L6			
Location :	X109		X110		X111		X112		X113		X114		X115			
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil			
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg			
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag		
ALUMINUM	7550	J	8210	J	8100	J	7550	J	9190		7300		7260			
ANTIMONY	--		0.83	J	0.48	J	1.5	J	--		1.8	J	0.61	J		
ARSENIC	7		10		7.6		14.2		3.3		8		7.2			
BARIUM	130		130		143		180		160		531		153			
BERYLLIUM	0.51	J	0.57	J	0.51	J	0.58	J	1.4		0.55	J	0.46	J		
CADMIUM	0.8		2.1		2		5		0.82		5.5		1.4			
CALCIUM	4710	J	5130	J	3830	J	18800	J	58300		6040		3880			
CHROMIUM	18.6	J	27.4	J	24.3	J	44.9	J	21.5		35.3		16.8			
COBALT	6.6		7.8		7.8		7		4.2		7.7		6.6			
COPPER	36.7		56.5		45		103		33.2		89.3		40.3			
IRON	15700	J	19100	J	18200	J	19100	J	12900		18000		15000			
LEAD	91.4		284		234		497		192		581		173			
MAGNESIUM	1940		2410		2120		3810		9890		1400		1680			
MANGANESE	797	J	804	J	728	J	938	J	946		1160		628			
MERCURY	--		0.09		0.1		0.16		0.06		0.17		0.33			
NICKEL	17.7		22.6		23.3		30.3		13.6		23.6		18.5			
POTASSIUM	856		1190		1330		1240		1650	J	1090	J	1020	J		
SELENIUM	0.95		1.6		1.3		1.6		1.4		2		1.2			
SILVER	--		--		--		0.48	J	--		0.42		0.13			
SODIUM	781	J	1310	J	1320	J	3120	J	1430	J	2310	J	719	J		
VANADIUM	21.5	J	24.8	J	23.5	J	25.4	J	27.8		23.5		21.4			
ZINC	219	J	853	J	833	J	2480	J	397		1670		394			
CYANIDE	0.32		0.27		0.29		0.43		1.6		0.55		0.26			

Below Detection Limit: --
Estimated Value: J

T. 1.4
LACLEDE STEEL, LPC-1190100004/ILN-000508283
Organic / Pesticide / PCB Waste Samples

Sample Number :	E0016	E00T /	E00T3	E00W0	E00T4	E00W2	E00W3	E00W4	E00W5	E00W6	E00W7	E00W8
Sample Location:	X301	X302	X303	X304	X306	X314	X315	X316	X317	X318	X319	X320
Matrix :	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Units :	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Chloromethane	--		--		--		19		--		34	
Trichlorofluoromethane	--		--	1 J	--		--		--		--	
Carbon Disulfide	--		--		--		11	2 J	--	3 J	7 J	19 J
Methyl Acetate	--		--		--		--		--		9 J	14 J
2-Butanone	--		--		--		13	15	--	15 J	14 J	17 J
Chloroform	5 J	2 J	--		--	2 J	--		--		--	
Methylcyclohexane	--		--		--		--		--	13 J	--	--
4-Methyl-2-pentanone	--		--		--		--		--	7 J	--	--
Toluene	--		--		--		6 J	--	--	15 J	--	--
Ethylbenzene	--		--		--		--		--	8 J	--	--
Xylenes (total)	--		--		--		--		--	46	--	--
Isopropylbenzene	--		--		--		--		--	4 J	--	--
1,2-Dichlorobenzene	--		--		--		2 J	--	--	--	--	--
Semivolatile Compound												
Phenanthrene	--		--		5400	270 J	--		--	--	--	--
Anthracene	--		--		1500	J	--		--	--	--	--
Carbazole	--		--		520	J	--		--	--	--	--
Fluoranthene	--		--		13000	690 J	--		--	--	--	--
Pyrene	--		--		8600	620 J	--		--	--	--	--
Benzo(a)anthracene	--		--		5500	360 J	--		--	--	--	--
Chrysene	--		--		5100	410 J	--		--	--	--	--
Di-n-octylphthalate	--		--		--	--	--	240000 J	100000 J	--	--	--
Benzo(b)fluoranthene	--		--		3300	J 470 J	--		--	--	--	--
Benzo(k)fluoranthene	--		--		4400	300 J	--		--	--	--	--
Benzo(a)pyrene	--		--		2400	J 290 J	--		--	--	--	--
Indeno(1,2,3-cd)pyrene	--		--		1600	J 260 J	--		--	--	--	--
Dibenzo(a,h)anthracene	--		--		580	J	--		--	--	--	--
Benzo (g,h,i)perylene	--		--		1100	J 260 J	--		--	--	--	--
Pesticide/PCB												
Heptachlor	--		--		--	2.5	--		--	--	33	--
Aldrin	180	D	140	D	--	--	--		--	--	--	--
Heptachlor epoxide	--		--		--	--	4200	D	--	--	--	--
Endosulfan I	--		32	D	--	--	--		--	--	--	--
Endosulfan II	--		--	68	D	--	--		--	--	--	--
Endrin ketone	--		--		--	15	--		--	--	--	--
Aroclor-1242	4500	D	3000	D	--	1100	D	160	35000	D	300000	D
Aroclor-1254	--		--	800	D	--	--		--	--	--	--

Below Detection Limit: --
Estimated Value: J
Secondary Dilution Factor: D

TABLE 1.5
LACLEDE STEEL, LPC-1190100004/ILN-000508283
Inorganic Waste Samples

Sample Number :	ME00T6		ME00T7		ME00T3		ME00W0		ME00W1		ME00T4		ME00T8		ME00T9	
Sampling Location :	X301		X302		X303		X304		X305		X306		X308		X309	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ANTIMONY	--		--		1.8	B	1.0	B	--		6.2		15.6		65.1	
ARSENIC	3.8		3.7		13.3		15.1		1.5	B	25.5		20.3		38.0	
BARIUM	340		478		202		215		475		443		374		351	
BERYLLIUM	0.96	B	0.94	B	0.86	B	0.52	B	2.1		1.4		0.18	B	0.27	B
CADMIUM	2.9	*	1.4	*	6.5	*	12.3	*	1.1	*	61.9	*	151	*	439	*
CHROMIUM	1960	*	2540	*	565	*	346	*	1800	*	426	*	2360	*	2200	*
COBALT	4.2	B	4.3	B	7.7	B	8.7	B	4.6	B	10.6		15.7		16.5	
COPPER	158		173		379		235		143		340		1310		2100	
LEAD	308	*	145	*	1300	*	598	*	373	*	2400	*	4170	*	15900	*
MAGNESIUM	30000	E	33900	E	9830	E	10900	*	36200	E	37200	E	13400	E	19500	E
MANGANESE	24700		26600		8410		8200		31700		12100		32000		33000	
MERCURY	--		--		0.76		--		--		0.11		2.3		8.4	
NICKEL	31.2	N	38.9	N	65.5	N	40.6	N	25.5	N	76.4	N	138	N	163	N
SELENIUM	7.9		8.1		3.9		3.3		10.0		4.7		13.3		19.8	
SILVER	1.9	B	2.1		2.1	B	2.3		1.6		3.8		16.3		55.1	
THALLIUM	7.8		6.7		4.0		4.6		3.9		5.4		10.9		10.5	
VANADIUM	339		591		56.9		75.1		262		124		290		173	
ZINC	969	*	816	*	1730	*	2090	*	769	*	8520	*	78700	*	132000	*

Sample Number :	ME00T5		ME00W2		ME00W3		ME00W4		ME00W5		ME00W6		ME00W7		ME00W8	
Sampling Location :	X311		X314		X315		X316		X317		X318		X319		X320	
Matrix :	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ANTIMONY	1.6	B	18.2	B	9.5	B	3.0	B	12.7	B	20.1		72.5		37.7	
ARSENIC	10.9		54.7		37.1		27.7		44.0		50.7		31.7		39.5	
BARIUM	1.7	B	215		92.5		120		40.2	B	53.4		103		67.7	
BERYLLIUM	--		0.45	B	--		0.35	B	0.090	B	--		0.19	B	0.13	B
CADMIUM	--		223	*	13.8	*	8.7	*	1.1	B	0.75	B	3.9	*	2.1	*
CHROMIUM	207	*	4070	*	1610	*	2960	*	405	*	259	*	756	*	476	*
COBALT	5.2	B	21.4		12.2		10.5	B	22.7		150		17.4		29.9	
COPPER	308		1250		1030		594		1120		690		734		1100	
LEAD	3.5	*	5720	*	435	*	412	*	88.6	*	382	*	1060	*	457	*
MAGNESIUM	61.1	B	4690	E	1520	E	3590	E	928	B	1000	B	1120	B	1380	B
MANGANESE	682		3630		1360		2120		2430		1580		1260		2530	
MERCURY	--		1.5		--		0.28		--		--		--		--	
NICKEL	125	N	281	N	195	N	138	N	344	N	219	N	183	N	322	N
SELENIUM	2.7		7.4		3.6		3.6		6.7		8.5		5.8		10.1	
SILVER	2.4		20.4		5.2		3.8		5.8		5.7		5.5		9.5	
THALLIUM	2.9		6.1		2.8		3.3		8.0		7.8		5.1		10.9	
VANADIUM	14.5		43.3		31.2		41.9		43.6		8.2	B	15.8	B	22.6	
ZINC	25.9	*	42700	*	3360	*	3110	*	634	*	454	*	2820	*	756	*

Value is less than CRDL and greater than IDL: B

Estimated value due to interference: E

Estimated value: J

Spike recovery not within limits: N

Duplicate sample not within control limits: *

TABLE 1.6
LACLEDE STEEL, LPC-1190100004/ILN-000508283
ORGANIC WATER

Sample Number :	E00X1		E00X5		E00X3		E00X4		E00X6		E00X7		E00Y8		E00X0	
Sampling Location :	G201		G202		G203		G204		G205		G206		G207		G210	
Matrix :	Water		Water		Water		Water		Water		Water		Water		Water	
Units :	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1-Dichloroethene	--		--		--		--		--		9	J	--		--	
Carbon Disulfide	--		61		--		--		--		--		--		--	
1,1-Dichloroethane	--		--		--		--		--		12		--		--	
1,1,1-Trichloroethane	--		--		--		--		--		24		--		--	
Benzene	--		--		--		--		--		16		--		--	
Xylenes (total)	--		--		6	J	8	J	--		--		--		--	
1,2-Dichlorobenzene	--		--		2	J	3	J	--		--		--		--	
Semivolatile Compound																
4-Methylphenol	--		--		--		1	J	--		--		--		--	
Naphthalene	--		--		29		37		--		--		--		--	
Caprolactam	--		--		14		25		2	J	--		--		--	
2-Methylnaphthalene	15		--		--		91	E	--		--		--		--	
Hexachlorocyclopentadiene	--		--		76		--		--		--		--		--	
1,1'-Biphenyl	--		--		5	J	6	J	--		--		--		--	
Acenaphthene	--		--		3	J	4	J	--		--		--		--	
Dibenzofuran	--		--		4	J	4	J	--		--		--		--	
Fluorene	1	J	--		--		6	J	--		--		--		--	
4-Chlorophenyl-phenyl ether	--		--		5	J	--		--		--		--		--	
Phenanthrene	--		--		4	J	5	J	--		--		--		--	

Below Detection Limit: --

Estimated Value: J

Exceeded calibration Range of Instrument: E

TABLE 1.7
LACLEDE STEEL, LPC-1190100004/ILN-000508283
Inorganic Water Samples

Sample Number :	ME00X1		ME00Y9		ME00X5		ME00X9		ME00X3		ME00Y0		ME00X4		ME00Y1	
Sampling Location :	G201		G201 F		G202		G202 F		G203		G203 F		G204		G204 F	
Matrix :	Water		Water		Water		Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	913	J	1020	J	1680	J	--		947	J	838	J	927	J	883	J
ARSENIC	5.1		6.9		--		--		3.1		--		--		3.0	
BAR IUM	13.3		16.0		711		419		69.7		67.6		69.3		70.5	
BERYLLIUM	--		--		--		--		--		--		--		--	
CADMIUM	--		--		--		--		--		--		--		--	
CALCIUM	20700		27100		301000		143000		90600		88200		90100		91800	
CHROMIUM	7.4		5.5		--		--		1.7		--		1.7		--	
COBALT	--		--		--		--		--		--		--		--	
COPPER	8.7		6.1		4.8		--		2.8		1.9		3.2		2.3	
IRON	--		--		25800		4040		--		--		--		--	
LEAD	--		--		--		--		--		--		--		--	
MAGNESIUM	--		--		55800		41000		--		--		--		--	
MANGANESE	2.6		3.8		1320		736		2.2	J	1.1	J	2.4	J	1.3	J
MERCURY	--		--		--		--		--		--		--		--	
NICKEL	--		--		9.8		7.5		--		--		--		--	
POTASSIUM	15000	J	15200	J	4590		4350		10300	J	9990		10300	J	10400	J
SELENIUM	5.4	J	3.8	J	2.3	J	--		3.1	J	2.4	J	5.1	J	--	
SILVER	--		--		--		--		--		--		1.2		--	
SOD IUM	73100	J	78200	J	41600	J	40700	J	71200	J	68800	J	72100	J	72800	J
THALLIUM	--		--		--		--		--		--		--		--	
VANADIUM	92.0		82.3		--		--		21.7		22.0		21.9		22.1	
ZINC	3.8		12.4		46.1		5.2		2.7		1.6		2.8		--	
CYANIDE	8.9		NA		--		NA		0.74	J	NA		1.2	J	NA	

Sample Number	ME00X6		ME00Y2		ME00X7		ME00Y3		ME00Y8		ME00Y4		ME00X0		ME00Y5	
Sampling Location	G205		G205 F		G206		G206 F		G207		G207 F		G210		G210 F	
Matrix :	Water		Water		Water		Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	31700	J	--		39000	J	--		500	J	--		--		--	
ARSENIC	9.7		--		34.3		--		6.0		--		--		--	
BAR IUM	570		82.7		638		100		40.5		25.3		--		--	
BERYLLIUM	1.9		--		3.1		--		--		--		--		--	
CADMIUM	61.5		1.3		2.9		--		--		--		--		--	
CALCIUM	140000		116000		306000		198000		538000		529000		--		--	
CHROMIUM	46.7		--		110		--		--		--		--		--	
COBALT	25.4		--		40.8		--		9.7		8.0		--		--	
COPPER	173		--		85.5		2.8		5.2		2.3		--		--	
IRON	52700		30.2		79900		--		21000		16000		--		--	
LEAD	208		--		266		--		--		--		--		--	
MAGNESIUM	48700		37000		61400		49400		202000		197000		--		--	
MANGANESE	3160		1890		6700		479		12800	J	12300	J	--		4.1	J
MERCURY	0.12		--		0.16		--		--		--		--		--	
NICKEL	97.4		14.9		111		2.2		195		185		--		--	
POTASSIUM	6610		1420		7180		2290		5400		5320		40.0	J	39.3	
SELENIUM	5.8	J	2.4	J	7.3	J	4.4	J	--		2.6	J	--		3.3	J
SILVER	--		--		2.2		--		1.6		--		--		--	
SODIUM	121000	J	119000	J	87400	J	86900	J	140000	J	135000	J	--		--	
THALLIUM	--		--		--		--		3.5		--		--		--	
VANADIUM	154		7.1		126		0.93		1.5		--		--		--	
ZINC	330		6.8		915		17.0		15.3		11.4		--		--	
CYANIDE	1.8	J	NA		5.2	J	NA		0.79	J	NA		--		NA	

Below Detection Limit: --

Estimated Value: J

Not Analyzed for: NA

TABLE 2.1, Residential Soil Sample Descriptions
LACLEDE STEEL, LPC-1190100004/ILN-000508283

	<i>Sample</i>	<i>Location / Depth</i>	<i>Appearance / Sampler Notes</i>
	X101	SIU School of Dentistry, College Ave. & RT 140	silty-loam
<i>Date</i>	3/21/02	1-1.5"	medium brown
<i>Time</i>	1715		
	X102	3000 Shady Place	silty-loam
<i>Date</i>	3/21/02	1-1.5"	dark brown
<i>Time</i>	1450		
	X103	3021 Buena Vist	clay, silt loam
<i>Date</i>	3/21/02	1-1.5"	tan-brown
<i>Time</i>	1500		mossy area
	X104	2932 Buena Vista	loam
<i>Date</i>	3/21/02	1-1.5"	dark brown-black
<i>Time</i>	1505		
	X105	2929 Buena Vista	silty-clay
<i>Date</i>	3/21/02	1-1.5"	light tan
<i>Time</i>	1515		
	X106	2924 Buena Vista	silty-loam
<i>Date</i>	3/21/02	1-1.5"	medium brown
<i>Time</i>	1520		
	X107	3309 Oakwood	silty-loam, with some clay
<i>Date</i>	3/21/02	1-1.5"	medium brown
<i>Time</i>	1525		
	X108	2925 Wergess	silty-clay, with some clay
<i>Date</i>	3/21/02	1-1.5"	medium brown
<i>Time</i>	1530		
	X109	duplicate of X108	
	X110	2827 Residence	silty-loam, with some clay
<i>Date</i>	3/21/02	1-1.5"	medium brown
<i>Time</i>	3/24/04		
	X111	2821 Residence	silty-loam, with some clay
<i>Date</i>	3/21/02	1-1.5"	medium brown
<i>Time</i>	1515		
	X112	2713 Residence	silty-loam
<i>Date</i>	3/21/02	1-1.5"	medium brown
<i>Time</i>	1600		
	X113	2705 Viewland	silty-loam
<i>Date</i>	3/21/02	1-1.5"	medium brown
<i>Time</i>	1610		
	X114	2726 Viewland	silty-loam
<i>Date</i>	3/21/02	1-1.5"	medium brown
<i>Time</i>	1615		
	X115	506 Main	silty-loam
<i>Date</i>	3/21/02	1-1.5"	medium brown
<i>Time</i>	1630		

TABLE 2.2, Sediment Sample Descriptions
LACLEDE STEEL, LPC-1190100004/ILN-000508283

	<i>Sample</i>	<i>Location / Depth</i>	<i>Appearance / Sampler Notes</i>
	X201	background sediment sample, northern drainage route	clay-silt
<i>Date</i>	3/20/02	0-6"	medium brown, with fine sand
<i>Time</i>	1500		
	X202	sediment at PPE to Wood River Creek	silty-sand, medium to fine
<i>Date</i>	3/20/02	0-6" deep	tan
<i>Time</i>	0930		
	X203	sediment at start of east-side forested wetlands	clay-silt
<i>Date</i>	3/20/02	0-8" deep	dark brown
<i>Time</i>	1000		
	X204	duplicate of X203	
	X205	sediment from main drainage ditch	silty-clay
<i>Date</i>	3/20/02	2-4" deep	dark black, petroleum odor
<i>Time</i>	1030		tan tint
	X206	sediment, on site drainage to X205	white paste, no odor
<i>Date</i>	3/20/02	0-6" deep	
<i>Time</i>	1130		
	X207	sediment, drainage ditch from former smelter	silty-loam
<i>Date</i>	3/20/02	0-6" deep	dark organic material
<i>Time</i>	1215		
	X208	sediment from southwest-side forested wetlands	silty-loam
<i>Date</i>	3/20/02	0-6" deep	dark septic
<i>Time</i>	1300		
	X209	background sediment sample, east-side drainage route	clay
<i>Date</i>	3/20/02	0-6" deep	dark brown
<i>Time</i>	1345		with some organics & silt

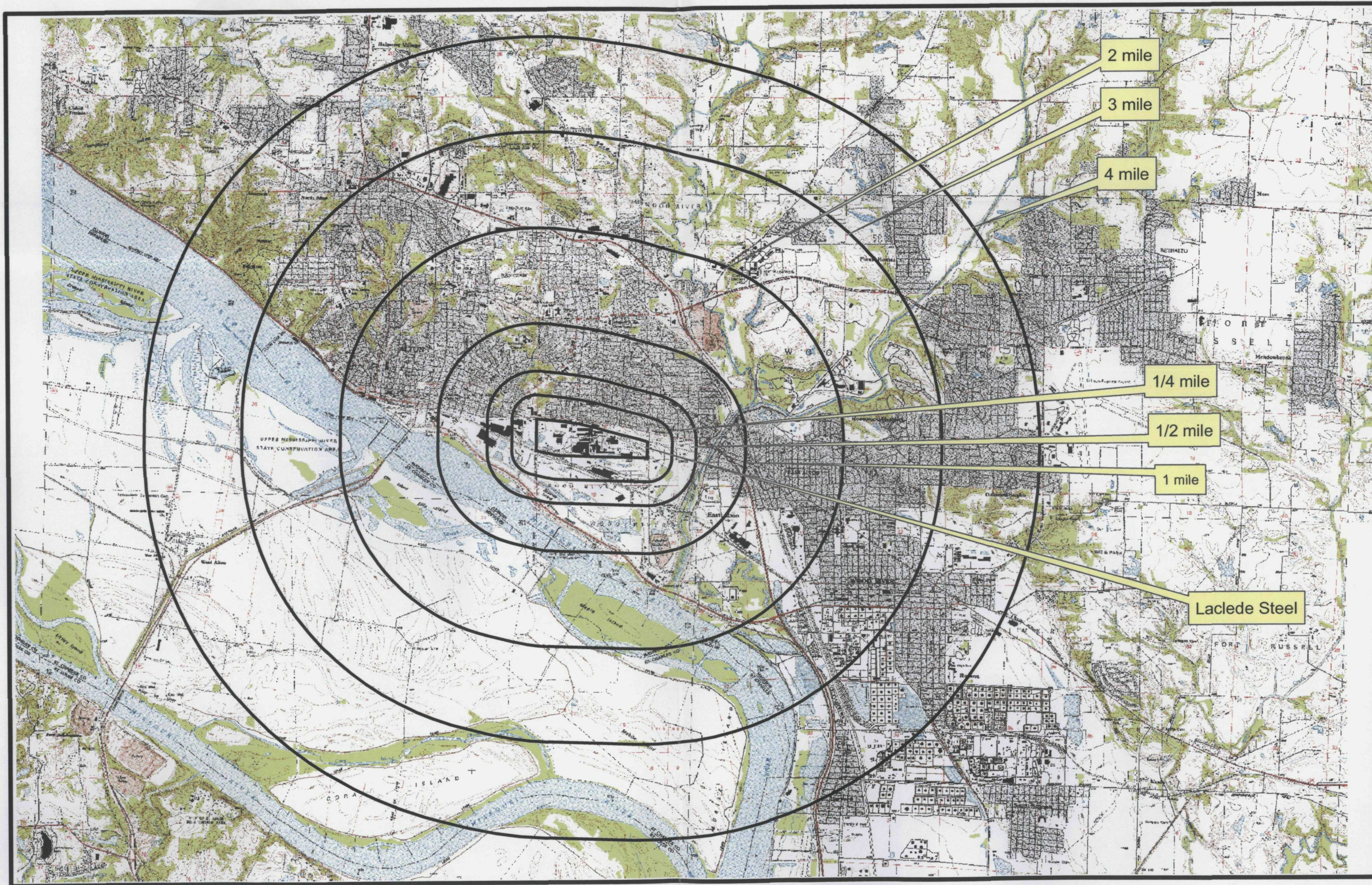
TABLE 2.3, Waste Sample Descriptions
LACLEDE STEEL, LPC-1190100004/ILN-000508283

	<i>Sample</i>	<i>Location / Matrix / Depth</i>	<i>Appearance / Sampler Notes</i>
	X301	south-side 500,000 gallon UST	black slag-clay
<i>Date</i>	4/29/02	waste	petroleum odor
<i>Time</i>	1215	5.5'	
	X302	east-side 500,000 gallon UST	black slag-clay
<i>Date</i>	4/29/02	waste	
<i>Time</i>	1410	5.5'	
	X303	northwest scrap yard area	dark slag-cinder
<i>Date</i>	4/29/02	waste	with some fines
<i>Time</i>	1030	1.5'	
	X304	southern ore bin area	black cinder-slag-clay
<i>Date</i>	4/29/02	waste	fine, dark black
<i>Time</i>	1500	3'	
	X305	west area 50' from NE corner of Rod Bldg.	dark slag-cinder
<i>Date</i>	4/29/02	waste	inorganic only
<i>Time</i>	1600	3-4'	
	X306	SE portion of scrap yard area	dark slag-cinder
<i>Date</i>	4/29/02	waste	with some fines
<i>Time</i>	1115	1.5'	
	X308	melt shop area	very fine dark powder
<i>Date</i>	4/29/02	waste	EAFD
<i>Time</i>	1335	surface	inorganic only
	X309	northern bag house	very fine dark powder
<i>Date</i>	4/29/02	waste	EAFD
<i>Time</i>	1345	surface	inorganic only
	X311	southern waste pile, scrap yard area	course grain silver-black
<i>Date</i>	4/29/02	waste	inorganic only
<i>Time</i>	1145	surface	
	X314	east-side lagoon	soft black oily sludge
<i>Date</i>	4/29/02	waste	
<i>Time</i>	1620	0-8"	
	X315	south-east corner, east side lagoon	soft black oily sludge
<i>Date</i>	4/29/02	waste	
<i>Time</i>	1635	0-8"	
	X316	west end, east side lagoon	soft black oily sludge
<i>Date</i>	4/29/02	waste	organic matter
<i>Time</i>	1650	0-8"	
	X317	oil skimmer area	soft black oily sludge
<i>Date</i>	4/29/02	waste	
<i>Time</i>	1730	0-6"	
	X318	east-side, west lagoon	soft black oily sludge
<i>Date</i>	4/29/02	waste	organic matter
<i>Time</i>	1750	0-12"	
	X319	southeast corner, west lagoon	soft black oily sludge
<i>Date</i>	4/29/02	waste	
<i>Time</i>	1800	0-15"	
	X320	west-side, west lagoon	soft black oily sludge
<i>Date</i>	4/29/02	waste	
<i>Time</i>	1820	12-24"	

TABLE 2.4, Groundwater Sample Descriptions
LACLEDE STEEL, LPC-1190100004/ILN-000508283

	<i>Sample</i>	<i>Type / Matrix / Laclede Steel Number</i>	<i>Appearance / Sampler Notes</i>
	G201	on-site monitoring well	clear
<i>Date</i>	4/30/02	groundwater	
<i>Time</i>	0930	MWOT1	
	G202	on-site monitoring well	turbid
<i>Date</i>	4/30/02	groundwater	
<i>Time</i>	1150	monitoring well # 7	
	G203	on-site monitoring well	clear
<i>Date</i>	4/30/02	groundwater	
<i>Time</i>	1045	MWOT2	
	G204	duplicate of G203	
	G205	on-site monitoring well	turbid
<i>Date</i>	4/30/02	groundwater	
<i>Time</i>	1130	monitoring well # 8	
	G206	on-site monitoring well	turbid/brown
<i>Date</i>	4/30/02	groundwater	
<i>Time</i>	1320	monitoring well # 1	
	G207	on-site monitoring well	turbid
<i>Date</i>	4/30/02	groundwater	
<i>Time</i>	1515	monitoring well # 9	
	G210	field blank	clear
<i>Date</i>	4/30/02	groundwater	
<i>Time</i>	0915		

APPENDIX A.
4- Mile Radius and Surface Water Maps

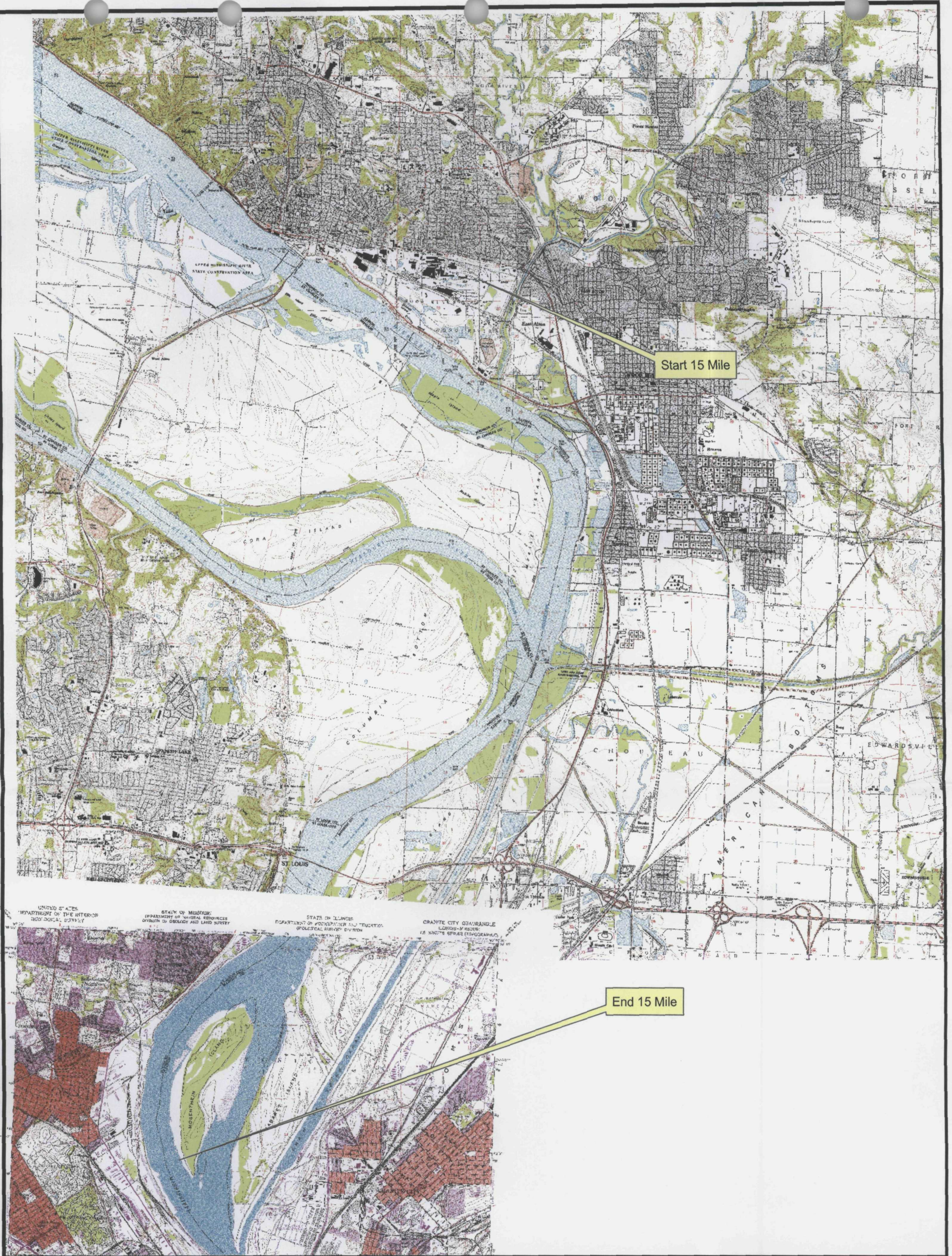


0 0.5 1 2 3 4 Miles

LACLEDE STEEL

4 Mile Radius Map

ILN 00508283

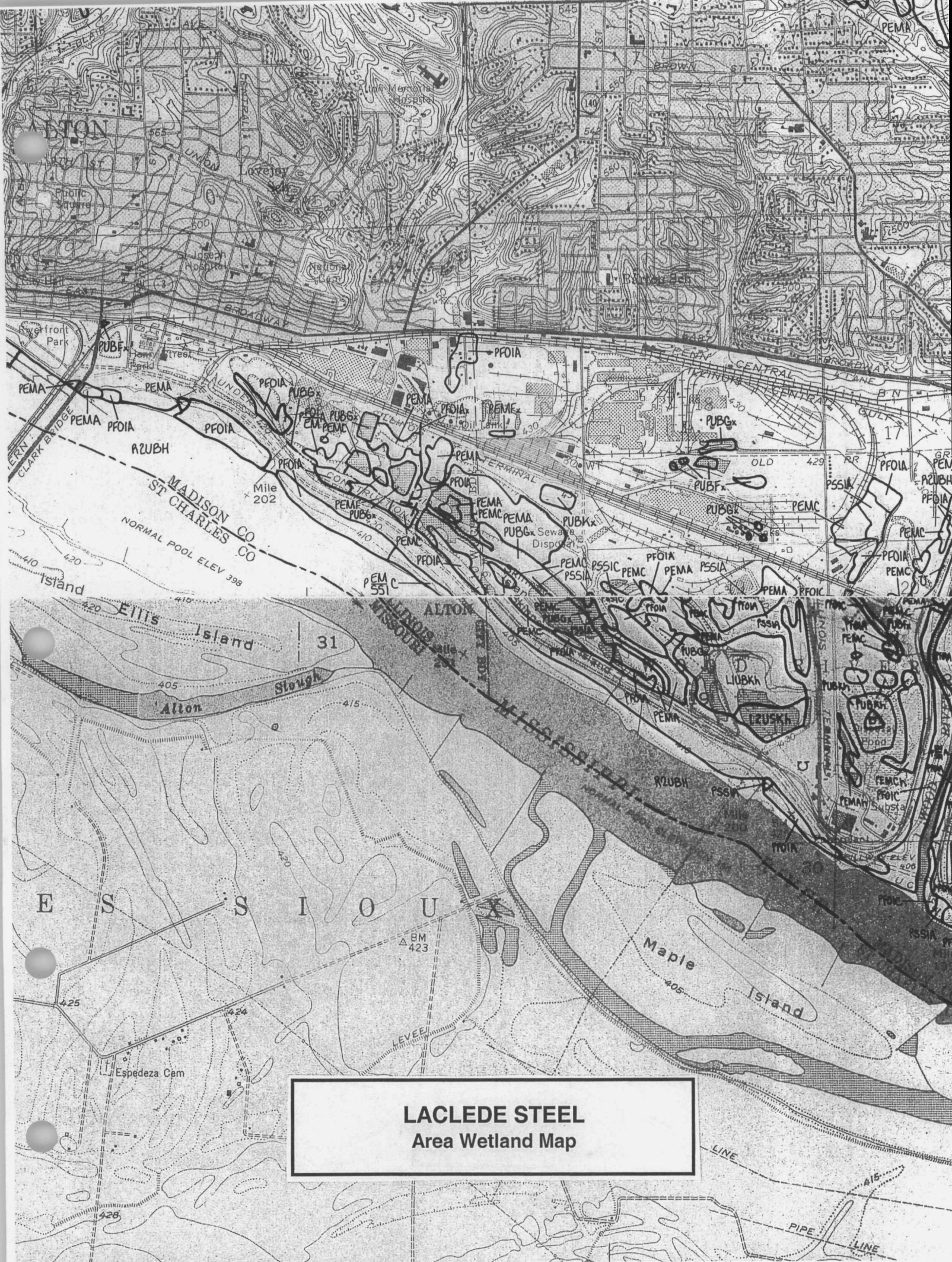


LACLEDE STEEL

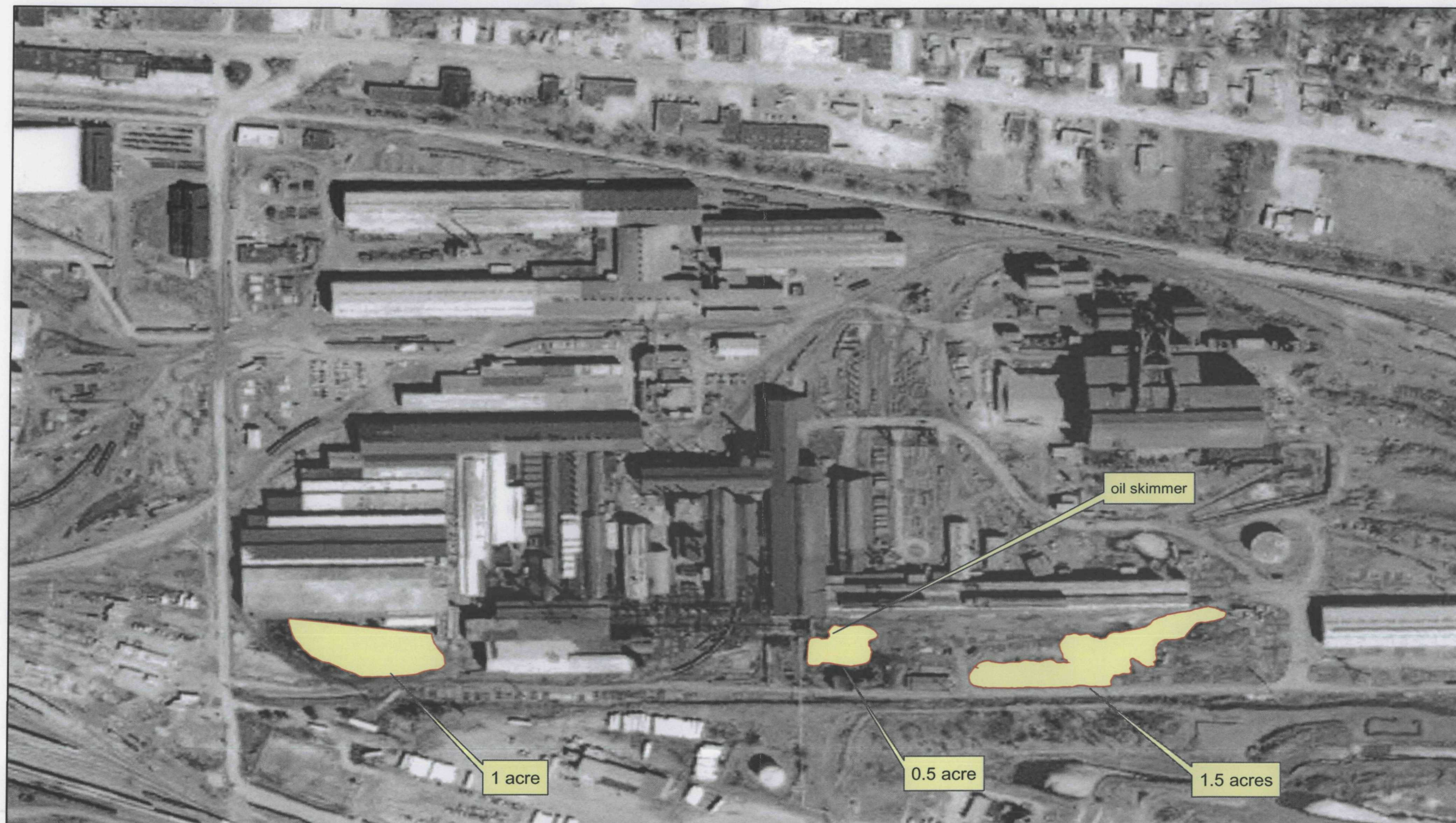
15 Mile Surface Water Map

ILN 000508283


APPENDIX B.
Area Wetlands Map



APPENDIX C.
Serpentine Cooling Lagoon Arial Photograph



LACLEDE STEEL
Serpentine Cooling Lagoons
8/02

 = lagoon area

APPENDIX D.
Target Compound List

TARGET COMPOUND LIST

Volatile Target Compounds

Chloromethane	1,2-Dichloropropane
Bromomethane	cis-1,3-Dichloropropene
Vinyl Chloride	Trichloroethene
Chloroethane	Dibromochloromethane
Methylene Chloride	1,1,2-Trichloroethane
Acetone	Benzene
Carbon Disulfide	trans-1,3-Dichloropropene
1,1-Dichloroethene	Bromoform
1,1-Dichloroethane	4-Methyl-2-pentanone
1,2-Dichloroethene (total)	2-Hexanone
Chloroform	Tetrachloroethene
1,2-Dichloroethane	1,1,2,2-Tetrachloroethane
2-Butanone	Toluene
1,1,1-Trichloroethane	Chlorobenzene
Carbon Tetrachloride	Ethylbenzene
Vinyl Acetate	Styrene
Bromodichloromethane	Xylenes (total)

Base/Neutral Target Compounds

Hexachloroethane	2,4-Dinitrotoluene
bis(2-Chloroethyl) Ether	Diethylphthalate
Benzyl Alcohol	N-Nitrosodiphenylamine
bis (2-Chloroisopropyl) Ether	Hexachlorobenzene
N-Nitroso-Di-n-Propylamine	Phenanthrene
Nitrobenzene	4-Bromophenyl-phenylether
Hexachlorobutadiene	Anthracene
2-Methylnaphthalene	Di-n-Butylphthalate
1,2,4-Trichlorobenzene	Fluoranthene

Isophorone	Pyrene
Naphthalene	Butylbenzylphthalate
4-Chloroaniline	bis(2-Ethylhexyl)Phthalate
bis(2-chloroethoxy)Methane	Chrysene
Hexachlorocyclopentadiene	Benzo(a)Anthracene
2-Chloronaphthalene	3-3'-Dichlorobenzidene
2-Nitroaniline	Di-n-Octyl Phthalate
Acenaphthylene	Benzo(b)Fluoranthene
3-Nitroaniline	Benzo(k)Fluoranthene
Acenaphthene	Benzo(a)Pyrene
Dibenzofuran	Ideno(1,2,3-cd)Pyrene
Dimethyl Phthalate	Dibenz(a,h)Anthracene
2,6-Dinitrotoluene	Benzo(g,h,i)Perylene
Fluorene	1,2-Dichlorobenzene
4-Nitroaniline	1,3-Dichlorobenzene
4-Chlorophenyl-phenylether	1,4-Dichlorobenzene

Acid Target Compounds

Benzoic Acid	2,4,6-Trichlorophenol
Phenol	2,4,5-Trichlorophenol
2-Chlorophenol	4-Chloro-3-methylphenol
2-Nitrophenol	2,4-Dinitrophenol
2-Methylphenol	2-Methyl-4,6-dinitrophenol
2,4-Dimethylphenol	Pentachlorophenol
4-Methylphenol	4-Nitrophenol
2,4-Dichlorophenol	

Pesticide/PCB Target Compounds

alpha-BHC	Endrin Ketone
beta-BHC	Endosulfan Sulfate
delta-BHC	Methoxychlor
gamma-BHC (Lindane)	alpha-Chlordane
Heptachlor	gamma-Chlordane
Alcrin	Toxaphene
Heptachlor epoxide	Aroclor-1016
Endosulfan I	Aroclor-1221
4,4'-DDE	Aroclor-1232
Dieldrin	Aroclor-1242
Endrin	Aroclor-1248
4,4'-DDD	Aroclor-1254
Endosulfan II	Aroclor-1260
4,4'-DDT	

Inorganic Target Compounds

Aluminum	Manganese
Antimony	Mercury
Arsenic	Nickel
Barium	Potassium
Beryllium	Selenium
Cadmium	Silver
Calcium	Sodium
Chromium	Thallium
Cobalt	Vanadium
Copper	Zinc
Iron	Cyanide
Lead	Sulfide
Magnesium	

DATA QUALIFIER DEFINITIONS

<u>QUALIFIER</u>	<u>DEFINITION ORGANICS</u>	<u>DEFINITION INORGANICS</u>
U	Indicates that the compound was analyzed for but not detected above the CRQL. The CRQL must be corrected for any dilution and percent moisture.	Indicates that the compound was analyzed for but not detected above the instruments detection limit (IDL).
J	Indicates an estimated value. This flag is used when estimating a concentration for TICs where a 1: 1 response is assumed or when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL but greater than zero or when the retention time data indicate the presence of a compound that meets the pesticide/Aroclor identification criteria and the result is less than the CRQL but greater than zero. Used in data validation when the quality control data indicate that a value may not be accurate.	Indicates an estimated value. Used in data validation when the quality control data indicate that a value may not be accurate.
UJ	The analyte was analyzed for but not detected. The associated value is an estimate and may be inaccurate or imprecise.	The analyte was analyzed for but not detected. The associated value is an estimate and may be inaccurate or imprecise.
R	Rejected data. The QC parameters indicate that the data is not usable for any purpose.	Rejected data. The QC parameters indicate that the data is not usable for any purpose.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS.	Method qualifier indicates analysis by Manual Spectrophotometry.
CA	Not Used	Method qualifier indicates analysis by Midi-Distillation Spectrophotometry.

CV	Not Used	Method qualifier indicates analysis by Cold Vapor AA.
B	This flag is used when the analyte was found in the associated blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action	The reported value is less than the contract required detection limit (CRDL) and greater than the IDL.
E	This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. All extracts containing compounds exceeding the calibration range must be diluted and analyzed again.	The reported value is estimated because of the presence of interference.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.	Not Used
P	This flag is for a pesticide/Aroclor target analyte when the percent difference for detected concentrations is greater than 25% between the two columns. The lower of the two values is reported on the Form 1 and flagged with a 'P'.	Method qualifier indicates analysis by Inductively Coupled Plasma (ICP) when hotplate digestion is used.
PM	Not Used	Method qualifier indicates analysis by ICP when microwave digestion is used.
M	Not Used	Duplicate injection precision not met (a QC parameter).
A	This flag indicates that a TIC is a suspected aldol-condensation product formed by the reaction of the solvents used to process the sample in the laboratory.	Method qualifier indicates analysis by Flame Atomic Absorption (AA) when hotplate digestion is used.

APPENDIX E.
Illinois EPA Sample Photographs

Date: 3/20/02
Time: 15:00 pm
Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004
ILN 000508283

Sample Location: X201

Direction: south

Description: background
sediment sample



Date: 3/20/02
Time: 15:00 pm
Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004
ILN 000508283

Sample Location: X201

Direction: west

Description: background
sediment sample



Date: 3/20/02

Time: 9:30 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X202

Direction: north

Description: sediment sample
at ppe to Wood River Creek



Date: 3/20/02

Time: 9:30 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X202

Direction: east

Description: sediment sample
at ppe to Wood River Creek



Date: 3/20/02

Time: 10:00 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X203 & X204

Direction: north

Description: sediment sample
start of forested wetlands



Date: 3/20/02

Time: 10:00 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X203 & X204

Direction: west

Description: sediment sample
start of forested wetlands



Date: 3/20/02

Time: 10:30 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004
ILN 000508283

Sample Location: X205

Direction: east

Description: sediment sample
drainage from site



Date: 3/20/02

Time: 10:30 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004
ILN 000508283

Sample Location: X205

Direction: south

Description: sediment sample
drainage from site



Date: 3/20/02

Time: 11:30 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X206

Direction: north

Description: sediment sample
on-site drainage



Date: 3/20/02

Time: 11:30 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X206

Direction: west

Description: sediment sample
on-site drainage



Date: 3/20/02

Time: 12:15 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004
ILN 000508283

Sample Location: X207

Direction: north

Description: sediment sample
drainage from lead smelter



Date: 3/20/02

Time: 12:15 pm

Photo Taken By: Mark Wagner

Site Name

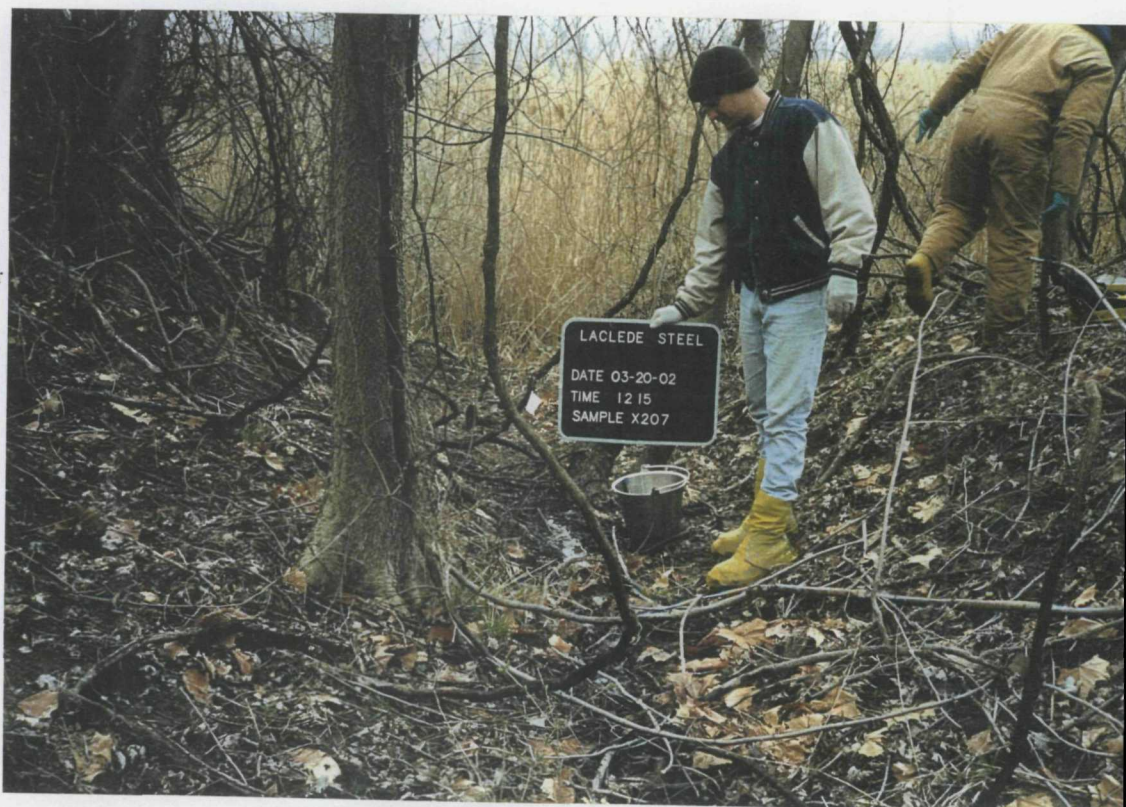
LACLEDE STEEL

L-1190100004
ILN 000508283

Sample Location: X207

Direction: south

Description: sediment sample
drainage from lead smelter



Date: 3/20/02

Time: 13:00 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

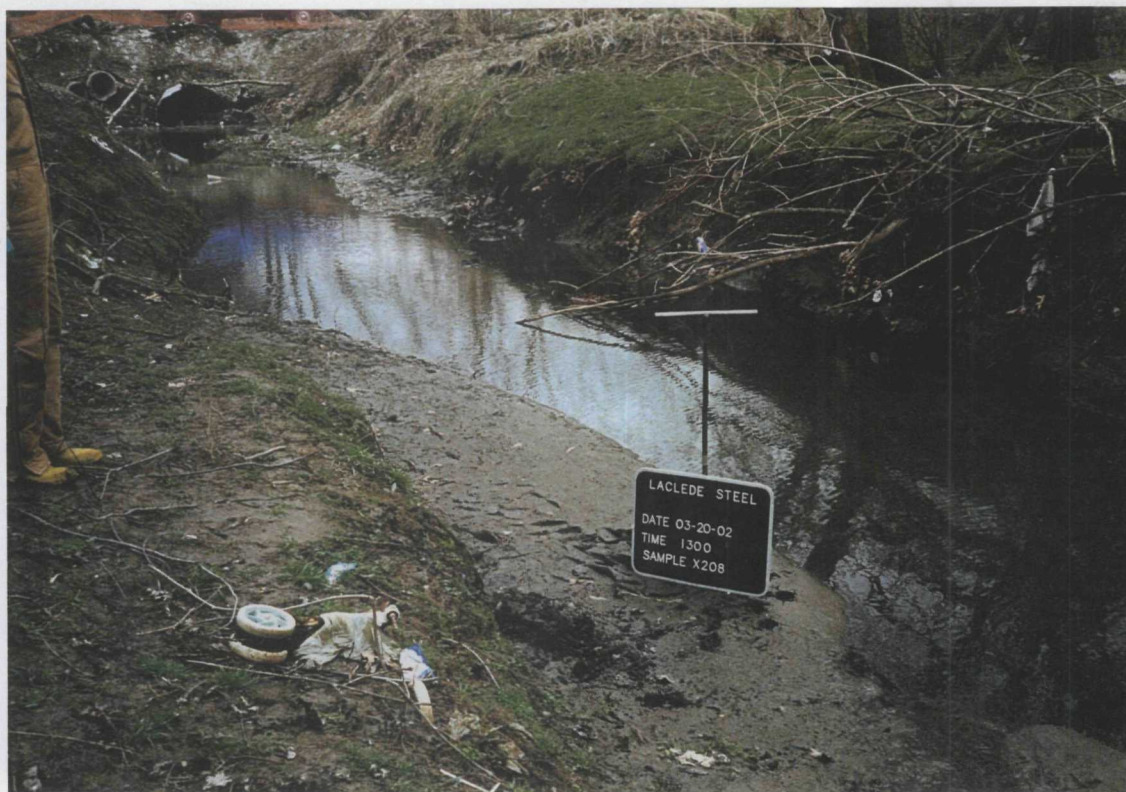
L-1190100004

ILN 000508283

Sample Location: X208

Direction: west

Description: sediment sample



Date: 3/20/02

Time: 13:00 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X208

Direction: east

Description: sediment sample



Date: 3/20/02

Time: 13:45 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004
ILN 000508283

Sample Location: X209

Direction: west

Description: background
sediment sample



Date: 3/20/02

Time: 13:45 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004
ILN 000508283

Sample Location: X209

Direction: east

Description: background
sediment sample



Date: 3/21/02

Time: 16:40 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X101

Direction: south

Description: background
residential soil



Date: 3/21/02

Time: 14:50 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X102

Direction: southwest

Description: residential soil



Date: 3/21/02

Time: 15:00 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

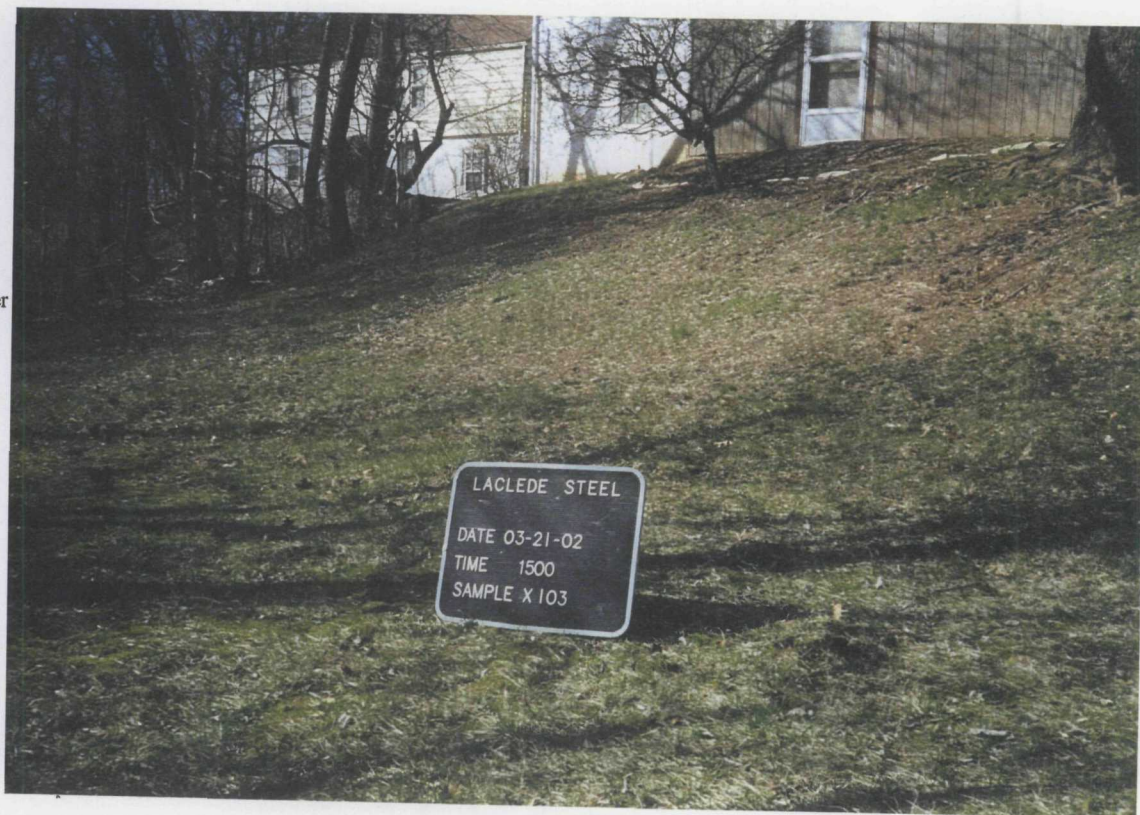
L-1190100004

ILN 000508283

Sample Location: X103

Direction: north

Description: residential soil



Date: 3/21/02

Time: 15:05 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X104

Direction: north

Description: residential soil



Date: 3/21/02

Time: 15:15 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X105

Direction: south

Description: residential soil



Date: 3/21/02

Time: 15:20 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X106

Direction: south

Description: residential soil



Date: 3/21/02

Time: 15:25 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X107

Direction: south

Description: residential soil



Date: 3/21/02

Time: 15:30 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

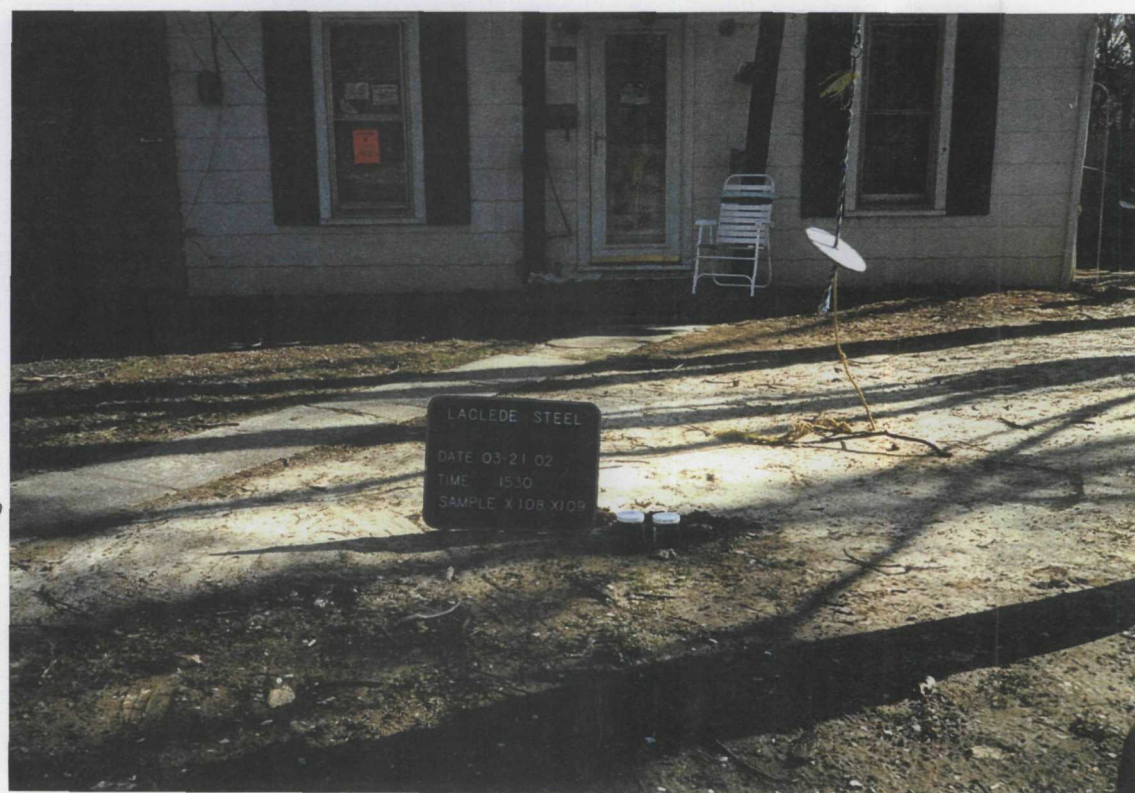
L-1190100004

ILN 000508283

Sample Location: X108 & X109

Direction: south

Description: residential soil



Date: 3/21/02

Time: 15:45 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X110

Direction: north

Description: residential soil



Date: 3/21/02

Time: 15:50 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X111

Direction: north

Description: residential soil



Date: 3/21/02
Time: 16:00 pm
Photo Taken By: Mark Wagner
Site Name
LACLEDE STEEL
L-1190100004
ILN 000508283
Sample Location: X112
Direction: south
Description: residential soil



Date: 3/21/02
Time: 16:10 pm
Photo Taken By: Mark Wagner
Site Name
LACLEDE STEEL
L-1190100004
ILN 000508283
Sample Location: X113
Direction: north
Description: residential soil



Date: 3/21/02

Time: 16:15 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X114

Direction: north

Description: residential soil



Date: 3/21/02

Time: 16:30 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X115

Direction: north

Description: residential soil



Date: 4/29/02

Time: 12:15 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X301

Direction: north

Description: south side
500,000 gallon UST



Date: 4/29/02

Time: 12:15 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X301

Direction: west

Description: south side
500,000 gallon UST



Date: 4/29/02

Time: 14:10 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X302

Direction: west

Description: east side
500,000 gallon UST



Date: 4/29/02

Time: 14:10 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X302

Direction: south

Description: east side
500,000 gallon UST



Date: 4/29/02

Time: 10:30 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X303

Direction: south

Description: northern scrap yard
area



Date: 4/29/02

Time: 10:30 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X303

Direction: west

Description: northern scrap yard
area



Date: 4/29/02

Time: 15:00 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X304

Direction: east

Description: southern ore bin area



Date: 4/29/02

Time: 15:00 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X304

Direction: north

Description: southern ore bin area



Date: 4/29/02

Time: 16:00 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X305

Direction: west

Description: northeast
corner of rod building



Date: 4/29/02

Time: 16:00 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X305

Direction: north

Description: northeast
corner of rod building



Date: 4/29/02

Time: 11:15 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X306

Direction: south

Description: southeast
portion of scrap yard area



Date: 4/29/02

Time: 11:15 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

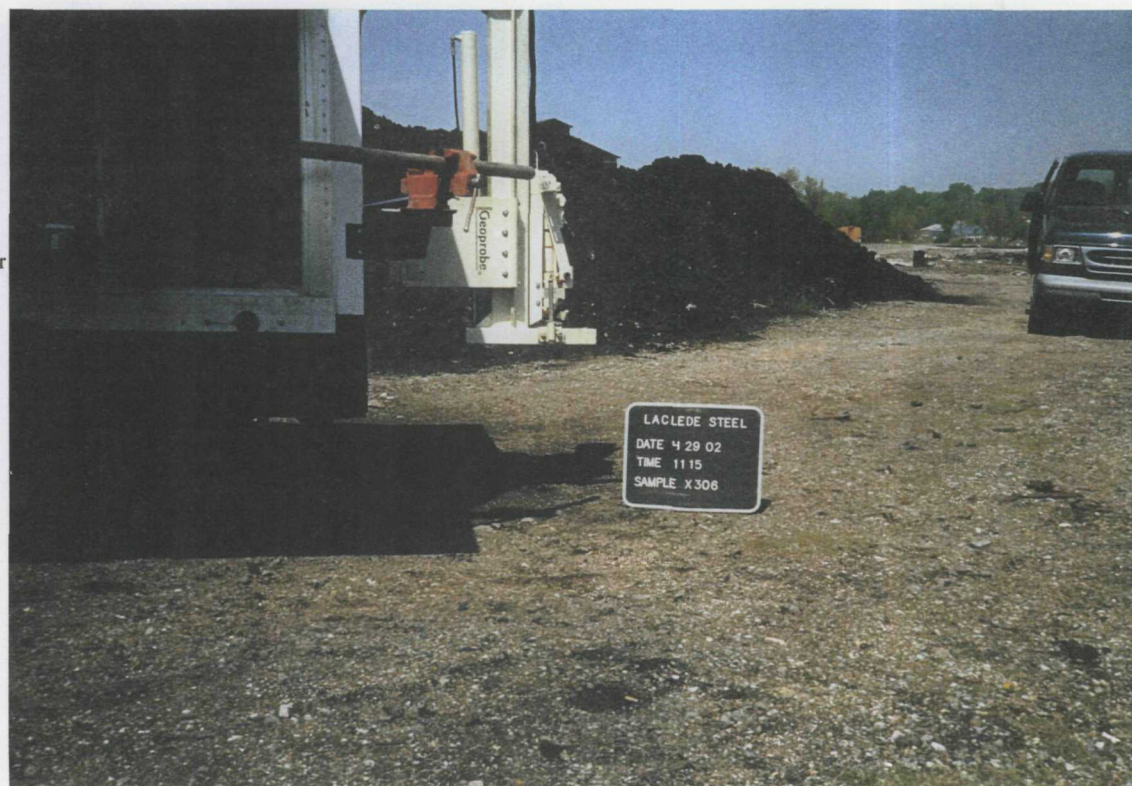
L-1190100004

ILN 000508283

Sample Location: X306

Direction: west

Description: southeast
portion of scrap yard area



Date: 4/29/02
Time: 13:35 pm
Photo Taken By: Mark Wagner
Site Name
LACLEDE STEEL
L-1190100004
ILN 000508283
Sample Location: X308
Direction: east
Description: melt shop area



Date: 4/29/02
Time: 13:45 pm
Photo Taken By: Mark Wagner
Site Name
LACLEDE STEEL
L-1190100004
ILN 000508283
Sample Location: X309
(photo board is incorrect)
Direction: east
Description: north bag house



Date: 4/29/02

Time: 11:45 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X311

Direction: south

Description: southern waste pile,
scrap yard area



Date: 4/29/02

Time: 11:45 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X311

Direction: west

Description: southern waste pile,
scrap yard area



Date: 4/29/02

Time: 16:20 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X314

Direction: north

Description: east-side lagoon



Date: 4/29/02

Time: 16:20 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X314

Direction: west

Description: east-side lagoon



Date: 4/29/02

Time: 16:35 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X315

Direction: north

Description: southeast corner,
east-side lagoon



Date: 4/29/02

Time: 16:35 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X315

Direction: west

Description: southeast corner,
east-side lagoon



Date: 4/29/02

Time: 16:50 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X316

Direction: south

Description: west end, south-side
lagoon



Date: 4/29/02

Time: 16:50 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X316

Direction: east

Description: west end, south-side
lagoon



Date: 4/29/02

Time: 17:30 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

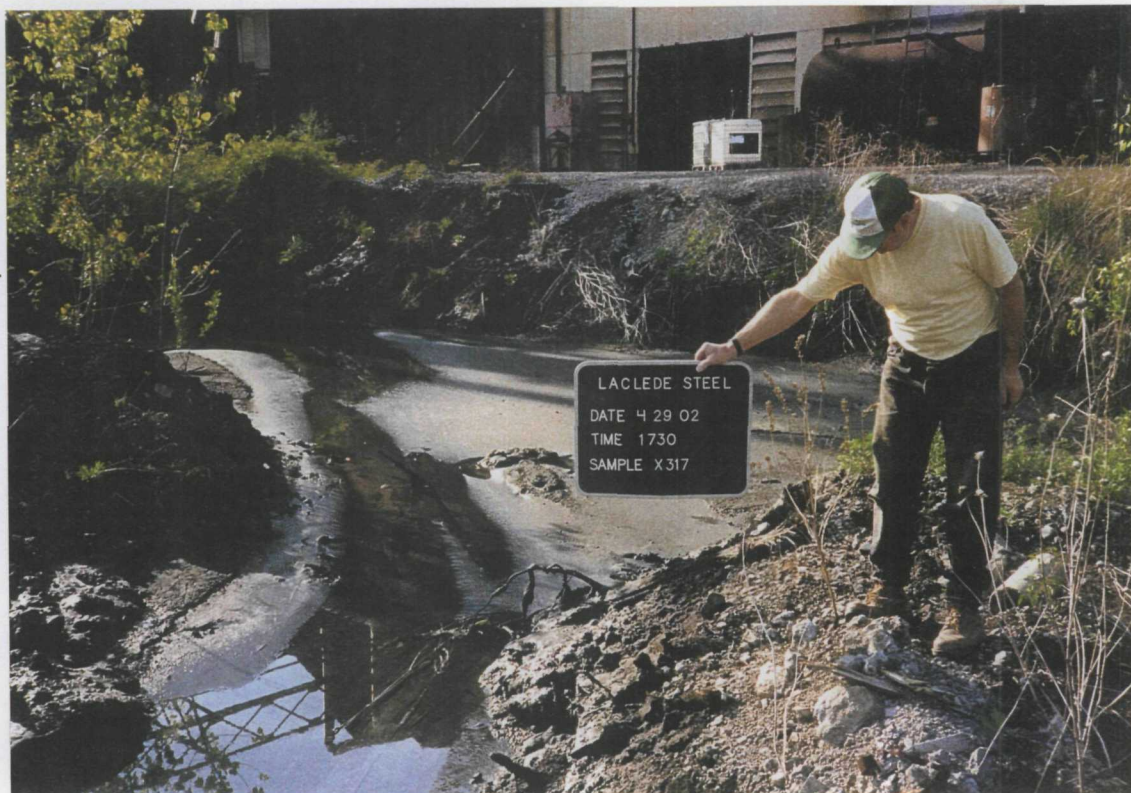
L-1190100004

ILN 000508283

Sample Location: X317

Direction: north

Description: oil skimmer area



Date: 4/29/02

Time: 17:50 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X318

Direction: north

Description: east-side, west lagoon



Date: 4/29/02

Time: 17:50 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X318

Direction: west

Description: east-side, west lagoon



Date: 4/29/02

Time: 18:00 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X319

Direction: north

Description: southeast corner,
west lagoon



Date: 4/29/02

Time: 18:20

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X320

Direction: east

Description: west-side, west lagoon



Date: 4/29/02

Time: 18:20 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: X320

Direction: north

Description: west-side, west lagoon



Date: 4/30/02

Time: 9:30 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004
ILN 000508283

Sample Location: G201

Direction: north

Description: monitoring
Well, MWOT 1



Date: 4/30/02

Time: 9:30 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004
ILN 000508283

Sample Location: G201

Direction: west

Description: monitoring
Well, MWOT 1



Date: 4/30/02

Time: 10:45 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: G203/G204

Direction: north

Description: monitoring
Well, MWOT 2



Date: 4/30/02

Time: 10:45 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: G203/G204

Direction: west

Description: monitoring
Well, MWOT 2



Date: 4/30/02

Time: 11:55 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004
ILN 000508283

Sample Location: G202

Direction: south

Description: monitoring
Well, MW # 7



Date: 4/30/02

Time: 11:55 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004
ILN 000508283

Sample Location: G202

Direction: west

Description: monitoring
Well, MW # 7



Date: 4/30/02

Time: 11:40 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: G205

Direction: north

Description: monitoring
Well, MW # 8



Date: 4/30/02

Time: 11:40 am

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: G205

Direction: west

Description: monitoring
Well, MW # 8



Date: 4/30/02

Time: 13:20 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: G206

Direction: north

Description: monitoring
Well, MW # 1



Date: 4/30/02

Time: 13:20 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004

ILN 000508283

Sample Location: G206

Direction: west

Description: monitoring
Well, MW # 1



Date: 4/30/02

Time: 15:15 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004
ILN 000508283

Sample Location: G207

Direction: north

Description: monitoring
Well, MW # 9



Date: 4/30/02

Time: 15:15 pm

Photo Taken By: Mark Wagner

Site Name

LACLEDE STEEL

L-1190100004
ILN 000508283

Sample Location: G207

Direction: west

Description: monitoring
Well, MW # 9

